

SEQUENCE LISTING

<110> Jacobs, Kenneth
 McCoy, John M.
 LaVallie, Edward R.
 Racie, Lisa A.
 Evans, Cheryl
 Merberg, David
 Treacy, Maurice
 Genetics Institute, Inc.

<120> SECRETED EXPRESSED SEQUENCE TAGS (sESTs)

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ccgaagcgcc ttcccaact tgggtgcttc tctgggata actgtgatga aggaaaggac 180
cctgcagtga tcaaaagcct cagatccaa cctgacccca ttgtggttcc tggagatgta 240
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gcagcccgtc tgcctcctct ggcatcctt ctctgctgc tgcctcctgc cgtccctgac 180
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taccagaata tacaactaac aattcaacag tgatgttctt tgcatttctg gggagatgtg 240
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agaaattctg tttttaaaaa ttagecctaag atatacttgt ttttgtaaag aaaaatattt 240
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<211> 314

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 161

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<212> DNA

<213> Homo sapiens

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<211> 250

<212> DNA

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<212> DNA

<213> Homo sapiens

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<211> 258

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attgacatgg attctaaatt tgaaaatagc aacaaagatt taaaggaaga attgtgcct 180
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aaagacgatg agctcgag 258

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<211> 308

<212> DNA

<213> Homo sapiens

<400> 31

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<211> 338

<212> DNA

<213> Homo sapiens

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 aacagtttgg gaggccaaag caagcggatc actcgag 217

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 aaaacaacca gaccatgaaa catgatgcta aaatgagata cctgagtgat gatgtggatg 240
 acatttcctt gtcgtctttg tcattctctg ataagaatga ttaagttaa gacttttagtg 300
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<210> 38
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 catacattgg gtatgtgaga ttgtggcggg ggggtggtcc cctagctttt tgtctataat 180
 ttctgatttt attgcaataa atttaaacct caacacagag ctcgag 226

<210> 40
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 40
 gaattcgcgg ccgcgtcgac ctagtttatg agttttattct tctgctcgtt ttgggagttt 60
 gtttttggtt ttctagtttt tttagggtcg aggtgaggtt gtttaattgga cgtctatctc 120
 cttggtgtag acgttttagt ctgtctagtc ctcttaacac tgtgtttgtc gcaacccaga 180
 ggttttggcc tgttttcatt ttttaacaaa tgatttttgt ttctgtcata attttcttgt 240
 ttacccaaaa cctcgag 257

<210> 41
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 41
 gaattcgcgg ccgcgtcgac tgcaagtaag gactatggaa aatttccaaa ccagattgga 60
 tcgttcagaa gccattcttc tgttgattct ttacacttcc ctcccattag ccgaaagaat 120
 tgagagccaa cctttccaaa tgccctgtc ccggttagca ggcaccaaag agctcatttc 180
 atttccctgct gccagcttaa tactcaccag ggcactcgag 220

<210> 42
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 42
 gaattcgcgg ccgcgtcgac gttacttttg caacaagttc ttttaccctt acccgtggta 60
 ttgaaaaaaa atcaaggtaa ctgtctgaat actttaatat cagcttggtt tgtgaattct 120

ctgaatactg tcaacactct tatctaagtt tgcctttatg atgcagtggc agcattttga 180
 attacttttc aaagaataact gtccatatgc attgtttttg tgtttcaaac taaatacagg 240
 cagttttgtg ccagctgtga tattgtgcat accatatgga cacctcgag 289

<210> 43

<211> 252

<212> DNA

<213> Homo sapiens

<400> 43

gaattcgagg ccgcgtcgac tttaacttaa aaattggctg tcatctcaga atttaactta 60
 aattttatata aatatttttg tagtagttaa taggtatatatt ggtagtaatt tggtagtttg 120
 gtacattttg tagtaattaa taggtacatt ttctgctgt gtagattgtt taagaaaaca 180
 gtgataatta tgcaaaagaaa tgttcaata actgtttggg tagtgatttt ggcttatttg 240
 gtcactctcg ag 252

<210> 44

<211> 162

<212> DNA

<213> Homo sapiens

<400> 44

gaattcgagg ccgcgtcgac ctaagttcca cattttattt agattccact agttttccca 60
 ttaagtcca tttctgttct agaateccat ccttttcttg tatgctatgg attatcagac 120
 ccctcacttg ggttccctct acatcaccaa gatgtgctcg ag 162

<210> 45

<211> 281

<212> DNA

<213> Homo sapiens

<400> 45

gaattcgagg ccgcgtcgac cttcttattt ccttgctgat gcatatctgc cgagtcttgg 60
 ttctgttttg ggctcctatg ccagcaagtg atagtctcat taggagcgtg gtagaacata 120
 gcgaagcctg gcattttggt cctccccttg tctcccaaag tctgtgggatt acaggcgtga 180
 gccactgcgc ctggtctggt tcttcccgta tgtgtgccac ataccgtgag ccattcagat 240
 ggatgaaagc aaacttcctt ataaaaggcc agaagctcga g 281

<210> 46

<211> 265

<212> DNA

<213> Homo sapiens

<400> 46

gaattcgagg ccgcgtcgac caccagacaa ctctatgagg gcagaaatta gatctatttt 60
 gctcatcatt gtatctccag agtccaacac aatgccagc attggagtaa ggtatttttaa 120
 tatttttaaaa aaattttttt tgagagacag ggtctccctc tgtaaccag gctgggggtgc 180
 agtggcacc ccatggctca ctctaacagc ctctggggt caagcagtc gaactacagg 240
 tatgtgtctac cacaccgagc tcgag 265

<210> 47

<211> 336

<212> DNA

<213> Homo sapiens

<400> 47

gaattcgagg ccgcgtcgac aaagtgttag aaaatcatgt tcttgtctt gagtaagagt 60
 taatcagagt aaatgcatt ctggagtgtt ttctgtgat taaattatga tcattattta 120
 agaagtcaaa tctgatctt gaagtgttt ttatacagct ctctaataat tacaatatc 180
 cgaagtcat ttcttggaac acaagtggag tatgccaaat ttatatgaa tttttcagat 240

tatctaaagct tccagggtttt ataattagaa gataatgaga gaattaatgg ggtttatatt 300
 tacattatct ctcaactatg tagcccgctt ctcgag 336

<210> 48

<211> 703

<212> DNA

<213> Homo sapiens

<400> 48

gaattcgcg cgcgctcgac gggacgtgaa attgacagtg aaaagtatgg cagatgagca 60
 agaaatcatg tgcaaatgg aaagcattaa agagatcagg aacaagaccc tgcagatgga 120
 gaagatcaag gctcgtttga aggcgtgagtt tgaggcactt gagtcagagg aaaggcactt 180
 gaaggaatac aagcaggaga tggaccttct gctacaggag aagatggccc atgtggagga 240
 actccgactg atccacgctg acatcaatgt gatggaaaac actatcaaac aatctgagaa 300
 tgacctaaac aagctgctag agtctacaag gaggctgcat gatgagtata agccactgaa 360
 agaacatgtg gatgccctgc gcatgactct gggcctgcag aggcctcctg acttgtgtga 420
 agaagaggag aagctttcct tggattactt tgagaagcag aaagcagaat ggcagacaga 480
 acctcaggag ccccccatcc ctgagtcctt ggcgctgca gccgctgccg cccaacagct 540
 ccaagtggct aggaagcag atactcggca gacggccacc ttcaggcagc agccccacc 600
 tatgaaggcc tgcttgtcat gtcaccagca aattcaccgg aatgcaccta tatgccctct 660
 ttgcaaggcc aagagtcggt ccggaaccc caataaactc gag 703

<210> 49

<211> 247

<212> DNA

<213> Homo sapiens

<400> 49

gaattcgcg cgcgctcgac cagctcatca gcatcacgta ctcatccctg cacatctcat 60
 ggaaggctgg acacctcttc tcaactacaag gcttcacctc ctctccggtg ccctcgcagg 120
 ggtagccctg cgtgcccggt gcctggcaca tgcggaagcg gcgctgccag cctgtgtcac 180
 acgtcttaga gcacaggctc cagcattcc atggccccca cttgctatca gtggccgggc 240
 actcgag 247

<210> 50

<211> 290

<212> DNA

<213> Homo sapiens

<400> 50

gaattcgcg cgcgctcgac aaataatacg tattecatatc tcaggatagc tggttagcta 60
 gcaaaagaat taacatttgt gatatttact tgcaaacctt actgaagcca tttcattat 120
 ctctcttctg accaaggctg ttgaccttaa ataaacatta agttgatttt gcacaacact 180
 gtatttgtgt gtgtgcatgt gccgtttttt gtgtgtgtat gtttgtggga aataattatg 240
 tttgtttccg catatattca tttttaatgc attctgtaac ttttctcgag 290

<210> 51

<211> 417

<212> DNA

<213> Homo sapiens

<400> 51

gaattcgcg cgcgctcgac cgactgagcc ggggtggatgg tactgctgca tccgggtgtc 60
 tggaggtgt ggcggttttg ttttcttggc taaaatcggg ggagtgaggg gggccggcgc 120
 ggcgcgacac cgggtctcgg aacctctgca cgacggggct ggactgacct gaaaaaatg 180
 tctggatttc tagagggtct gagatgctca gaatgcattg actgggggga aaagcgcaat 240
 actattgctt ccattgctgc tgggtgtacta ttttttacag gctgggtggat tatcatagat 300
 gcagctgtta tttatccac catgaaagat ttcaaccact cataccatgc ctgtgggtgt 360
 atagcaacca tagccttctt aatgattaat gcagtatoga atggacaagt cctcgag 417

<210> 52
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 52
 gaattcgcgg ccgcgtcgac tgaagatgct gcggtggca ctaactgtga catctatgac 60
 cttttttatc atcgacaag cccctgaacc atatatgtt atcactggat ttgaagtcac 120
 cgttatctta tttttcatac ttttatatgt actcagactt gatcgattaa tgaagtgggt 180
 attttggcct ttgcttgata ttatcaactc actggtaaca acagtattca tgctcatcgt 240
 atctgtgttg gcaactgatac cagaaaccac aacattgaca gttgggtggag ggggtgttgc 300
 acttgtgaca gcagtatgct gtcttgccga cggggccctt atttaccgga agcttctgtt 360
 caatcccagc ggactcgag 379

<210> 53
 <211> 105
 <212> DNA
 <213> Homo sapiens

<400> 53
 gaattcgcgg ccgcgtcgac aagaagcgta tggactacta tgactctgaa caccatgaag 60
 actttgaatt tatttcagga acacgaatgc gcaaacctgc tcgag 105

<210> 54
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 54
 gaattcgcgg ccgcgtcgac gttgatggtg agaatgatgg cagctgctgt ttgttgggca 60
 ccagctgttg tcagggtacag tgctaagcac tttaattaca ctgttaagtc accaggacag 120
 aaactccccc acaccagctc tgtaataggg gtgagtgttg gacataagca gggagttagc 180
 aagaagccaa gactaggctg ggcacagtgg ctacgcctg taattccagc cctcgag 237

<210> 55
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 55
 gaattcgcgg ccgcgtcgac gaagaaagaa aaactagcaa acatttgaga aatttagcaa 60
 ctgttttttt ttaaataaag caatttgttc taataattat ttcctaatac tcttaaaata 120
 cgctgtcatt aacggcagag aaagctcttt atttctttt gaattttaat actgggtaga 180
 aatataattt acaatgaaag tcagcaggaa agaactcgag 220

<210> 56
 <211> 247
 <212> DNA
 <213> Homo sapiens

<400> 56
 gaattcgcgg ccgcgtcgac caaaaataaa taagctcagg aataaagtga attggaagac 60
 agaaataatt tctgaaatga accagatata tgaggataat gataaagatg cacatgtcca 120
 agaaagctat acaaaagatc ttgattttta agtaataaaa tctaaacaaa aacttgaatg 180
 ccaagacatt atcaataaac actatatgga agtcaacagt aatgaaaagg aaagttgtaa 240
 tctcgag 247

<210> 57
 <211> 229
 <212> DNA

<213> Homo sapiens

<400> 57

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gaattcgcgg ccgcgtcgac gtgtgttggg aaacactgtg ggctcaatga aaaacccctt 60
tcggcccagt cctttgcctc cacattccag cttggcgccc tcagccacac cactctggat 120
gagttccaag atcttgttgt actgtttctt atcaatctgg ggacctgct cagtgggtgg 180
gtcaaaggga ctcceacta cgcgctcttt ggcccgtcc acactcgag 229
```

<210> 58

<211> 146

<212> DNA

<213> Homo sapiens

<400> 58

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gaattcgcgg ccgcgtcgac tgaggagag attggtcagt ctgttcaaaa ttacagatag 60
gaagaagagt aagttctggt gttctctgc acagtaggt aactatggtt aacaatattg 120
catatttcaa aacagctggc ctcgag 146
```

<210> 59

<211> 139

<212> DNA

<213> Homo sapiens

<400> 59

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gaattcgcgg ccgcgtcgac cctgcacct gtctgtctga caaacacctt cttatttgat 60
gctattcaag cctcacctcc tcttactctg cactccttcc tactttcacc ttccagatga 120
aaataaccac ttccctcgag 139
```

<210> 60

<211> 325

<212> DNA

<213> Homo sapiens

<400> 60

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gaattcgcgg ccgcgtcgac cctttccgtt tgatttgtca ctgcttcaat caataacagc 60
cgctccagag tcagtagtca atgaatatat gaccaaata caccaggact gttactcaat 120
gtgtgcgag cccttgccca tgctgggctc ccgtgtatct ggacactgta acgtgtgctg 180
tgtttgcctc ccttcccttt ccttctttgc cctttaactg tctttctggg gttttctgt 240
ttgggttttg tttggttttt atttctctt ttgtgttcca aacatgaggt tctctctact 300
ggtctcttta accatgggtgc tcgag 325
```

<210> 61

<211> 241

<212> DNA

<213> Homo sapiens

<400> 61

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gaattcgcgg ccgcgtcgac tcttattctt tcttgaaaat ttttaagtgt atggttttat 60
atagttcagt tctttgagat ttttgaaaag agtattttca gtaataaacg tgccatctct 120
atctcttaa catttattac aacaattgtt ttaaaataga aaaaataaaa tgcttctatt 180
ttacctttt ttcatttcag aagcattatt ctgtttatta acagtgtccc atctctctga 240
g 241
```

<210> 62

<211> 392

<212> DNA

<213> Homo sapiens

<400> 62

```
gaattcgcgg ccgcgtcgac gcacgtggca ctggaggagc ggcgttttgc acccccaggc 60
ttcagggaag ttctcaatag aaaacccatt agttgtctca tatgactggt attaatctg 120
```

```

acttaaaaaa aaaatcaagc cagaaacagt gtgttgagca agaaaggaaa aaagattcct 180
tattaaaagt tcaaacataa acagaaggct caggacctcc ttgactacct ctctttgccac 240
gtggcccagg agaaaccatg gctggcagtt taacagccac cctcctgctt ctgctctgtg 300
cattttgttg atgcacatcc acgtttttct tttcttttga gacagggtct cactctgttg 360
cccaggctgg aatgcaatgg cgcgatctcg ag
392

```

<210> 63

<211> 293

<212> DNA

<213> Homo sapiens

<400> 63

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gaattcgcgg ccgcgtcgac aggtccagtt ttctgtatg cattggatgg aagtgcagtt 60
agaaagcagt gttctccatc ctttttataa tgctgaggat gaatcaaata ttctcttacc 120
taaactacct acactgccaa aaaactatag caacacctca aaaatattta gtgaagaaaa 180
ttctgatgaa attattaagc tcttgggaga cgtcaggctt aatattctcg tcttggagg 240
aagctctgga tttattgagc tttatgctta tggaatgttt aaaattgctc gag 293

```

<210> 64

<211> 449

<212> DNA

<213> Homo sapiens

<400> 64

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gaattcgcgg ccgcgtcgac ccccttccaa aagcaaaaag aagcctcgaa agtgaaatgt 60
atctggaagg tctgggcaga tcacacattg cttccccag ttcttgtcct gacagaatgc 120
ccctaccatc acccactgag tctaggcaca gctctccat cctcctgtc tccagccctc 180
cggagcagaa agtgggtctt tatcgaagac aaactgaact tcaagacaaa agtgaaatgt 240
cagatgtgga caagctagct ttttaaggata atgaggagtt tgaatcatct tttgaatctg 300
cagggaaacat gccaaaggcag ttggaaatgg gcgggcttct tctgcccgg gatattgtctc 360
atgtggacgc tgctgcagct gctgtgccc tctcatatca gcaccaagt gtagatcaga 420
aacaattga agaacaaaag gaactcgag
449

```

<210> 65

<211> 247

<212> DNA

<213> Homo sapiens

<400> 65

```

gaattcgcgg ccgcgtcgac ggggctggag tataatagga gcggagagat agaaaagaga 60
ggcaaggaa gatcacagcc atcacaagc aatctaggca gaaagtgata ggaaaaaag 120
gagaaactat tcattctcaa ctattgtctg tatacacaaa cctctgaaaa tagccaatta 180
gtgttagatg ttctatcagg cgtggggaat ggggatggtt acaaaattca tctcccagt 240
tctcgag
247

```

<210> 66

<211> 227

<212> DNA

<213> Homo sapiens

<400> 66

```

gaattcgcgg ccgcgtcgac cgcggccgag tcgacctgct ggcagggttt tttgtttta 60
tttgtttgct tttttttaa ttaactgttt tgagctttga atacttaagg ctttagagg 120
agaacccaat tttcaattat gttggctttt tataaagctt gagttatgta agatttaaat 180
aaaagtgtgc taccaagatg attgccttat tgaatagatc actcgag
227

```

<210> 67

<211> 384

<212> DNA

<213> Homo sapiens

<400> 67

gaattcgcgg ccgcgtcgac tgacattcct gttggagact tacatccagg ggaacagctg 60
 gaaaaaatgt tgtatgttcg ctgtggaaca ggggggtcca gaatgtttct tgtatatgtt 120
 tcttacctga taaatacaac cgttgaagaa aaagaaattg tttgcaagtg tcacaaggat 180
 gaaactgtaa caattgaaac agtctttcca tttgatgttg cggttaaatt tgtttctacc 240
 aagtttgagc acctggaaag ggtttatgct gacatccctt ttctgttgat gacggacctc 300
 ttaagtgcct caccctgggc cctcactatt gtttccagtg agctccacct tgctccatcc 360
 atgaccacag tggaccagct cgag 384

<210> 68

<211> 302

<212> DNA

<213> Homo sapiens

<400> 68

gaattcgcgg ccgcgtcgac ctaaaccgtc gattgaattc tagacctctc acccaagctc 60
 ctctctctctt gcagtgaaga cctccctc cagtaacctt tttttcctgt gaaaaccctt 120
 caaccctttt tcaggacctc tctcaacccc atcttcccat ttgtgtccca ccagtccctt 180
 ccccaacctg ccaatatttc aataacccca cgcaccacag ttgtgtcgcg ttttctgccc 240
 caatgcacat accctggaac ctggtttctc tcttcgttg gggcccaacc cccctcctcg 300
 ag 302

<210> 69

<211> 184

<212> DNA

<213> Homo sapiens

<400> 69

gaattcgcgg ccgcgtcgac gatacaatct gcaaatgata aaaatttcga cgatgaagat 60
 tctgtggatg gtaacagacc ttctctgtct agttctacat catccaaggc tccaccaagt 120
 tctcggagaa acgttggaat gggaaccacc cgcgcgcttg gttcatccac ccttggacct 180
 cgag 184

<210> 70

<211> 262

<212> DNA

<213> Homo sapiens

<400> 70

gaattcgcgg ccgcgtcgac caaaaacaaa aaaaaacaaa aaaactttgc ccacttcttt 60
 ttatatgtgt gtgtcttctg aggttatcac ctgaagggat atttatggac tgaagagtgt 120
 ttagtattat ttgtgtatct tttactttgt tagaatacat acttatcttc taatgaaatt 180
 attccagaaa actttaaaag agtcatttaa attgcctgtt agtatagtta taaaattgac 240
 agagcagtggt caaaaactcg ag 262

<210> 71

<211> 166

<212> DNA

<213> Homo sapiens

<400> 71

gaattcgcgg ccgcgtcgac aaaggatgga caacaaaaac aaatgcctat gtgtgataac 60
 catgatgatg gtgaaactgc agcaatcatt ttatgcaatg tctgtggaaa tttatgtaca 120
 gactgtgaca gattccttca ccttcacga agaaccacaa ctcgag 166

<210> 72

<211> 370

<212> DNA

<213> Homo sapiens

<400> 72
 gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt gtaagccaaa ctgtcgtaa 60
 gtcggggact gtctgtatac cctaaagtga tttccttata cttcccaaaa ccgactcttc 120
 ctatattatc tgatttaaga aataggagta ataccactta ccttacagct tcctgggtca 180
 ctctctcatt gagttaacca atagatcttt gaattccctaa cctttttcct atccatcctt 240
 cccttttcag tgttctgttc ctatgctagt tcatgccttc ttacatctct tgcagagggt 300
 tttccatatt ctgcgaactt gtctccttgc gtctactctt cagtctgtct tccttaccac 360
 cagactcgag 370

<210> 73
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 73
 gaattcgcgg ccgcgtcgac ggcaccaagc ggaaaataaa ctccaacctg ggcaacagag 60
 caagactctg tctaaaaaaa aaaaaaagtt aatggcattt ctatccctgt cttgctaact 120
 agaaacctgg gaggagactc aagactgttc tcttcagtea gcttcccatg cctattttat 180
 atcccaactag tttattttat gagctatgtc tcaaaatcat actctctctc ctttgtctct 240
 cttacttgat cattgggtcag gctgtacctc tcagccaccc tctcgag 287

<210> 74
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 74
 gaattcgcgg ccgcgtcgac ccaatgagga aggcaaagaa aatcgagacc gggacagaga 60
 ctatagtcgg cgacgtggtg ggccaccaag acgggggaga ggtgccagcc gtggacgaga 120
 gtttcgaggt caggaaaatg gattggatgg caccaagagt ggagggcctt ctggaagagg 180
 aacagaaaaga ggcagaagga taccggctcg ag 212

<210> 75
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 75
 gaattcgcgg ccgcgtcgac acccctcccc catccaactt tcaggttatc tgaaaataaa 60
 gactagtatt aaattgacaa gttgtcgga aattttgcag caataaaggg ggcaagtgga 120
 aggcagagca ctttctagat cttgactttt ccatggccca tgaagatca ctaaactgtt 180
 cattttattt tcgacagtta gcacctgctg ttgatataata ctaaatggcg ggaacatgtt 240
 ttttttgttg tttgtttgtt ttgttttgtt ttgtttttcg agacggagtc tcgctctgtc 300
 cccaagctct cgag 314

<210> 76
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 76
 gaattcgcgg ccgcgtcgac aagtgagcac acgaaatcaa agcatgaaag cagaaaagaa 60
 aagaggaataa actatccaga atggcaggga attgtttgag tcttcccttt gtggagacct 120
 tttaaatgaa gtacaggcaa gtgagcacac gaaatcaaag catgaaagca gaaaagaaaa 180
 gaggaaaaaa agcaacaagc atgactcacc aagatctgaa gagcgcaagt cacacaaaaa 240
 ccccaaatga gaaccagag acctcgag 268

<210> 77
 <211> 295
 <212> DNA

<213> Homo sapiens

<400> 77

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gaattcgcgg ccgcgtcgac aattttaagt taagtcccat atgaaggctc aaaagagcgg 60
taaagaacaa cagcttgaca ttatgaacaa gcagtaccaa caacttgaaa gtcgtttgga 120
tgagatactt tctagaattg ctaaggaaac ggaagagatt aaggaccttg aagaacagct 180
tactgaaggc cagatagcag caaatgaagc cctgaagaag gatttagaag gtgttatcag 240
tggtgtgcaa gaatacctgg ggaccattaa aggccaggca gtcaggccc tcgag 295
```

<210> 78

<211> 148

<212> DNA

<213> Homo sapiens

<400> 78

```
gaattcgcgg ccgcgtcgac acatactctg cattttccac tgttactttg ataccatttt 60
tagttgcgaa acacgtggca tgttctcgga aatgaatagc tttcaagata gtggagagat 120
tcctaactgt gtcaaggctg agctcgag 148
```

<210> 79

<211> 224

<212> DNA

<213> Homo sapiens

<400> 79

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gaattcgcgg ccgcgtcgac ataaatttgc tgcggctgga ctcaaggaa atctcaatgt 60
ctttctctct gaccttggga gcccacggga gccctttggg gcaagtcagc ctgtcagtct 120
gtgggtgctg tagcggggga ggcacactt catcccgctt caggggaaac gtctccccc 180
ccagactgtt gtcacatca ttctctctt cctctactct cgag 224
```

<210> 80

<211> 288

<212> DNA

<213> Homo sapiens

<400> 80

```
gaattcgcgg ccgcgtcgac gtttcaaata aatgcttaaa gtttaatat acttgaaggc 60
aagagaagac aaagaacccc caaaatatta gaaaagatta taaaagacat tataagggtg 120
gaattcttac tctttgaatt ccatatattgt ttattatttt actaatgttc taatatttaag 180
ttcatgataa gtcacacaca tatgttttct ccacactctt tccacctatc agtttttcta 240
acatattatt gttttaaaat tcttaatttt attacagcaa tcttcgag 288
```

<210> 81

<211> 251

<212> DNA

<213> Homo sapiens

<400> 81

```
gaattcgcgg ccgcgtcgac tttgaaggct gtttgttgtt gttgattctt agaggcagat 60
atctgactac gttgtgttta tacttttagct atatgaatgt ttacctattg aaaatactgt 120
tttattaaaa attactttgt tctttatacc ttaggagata aatgtacatt ttaaaagtgt 180
tctcagtcga ggtgaggtgg cttatgcctg taagtccaac acttggggag gccgaaccag 240
gaggactcga g 251
```

<210> 82

<211> 498

<212> DNA

<213> Homo sapiens

<400> 82

```

gaattcgcg cgcgctcgac gtccatggct gaggagaaga ggaagcgaga ggaagaggag 60
aaggcacagc aggtggccag gaggcaacag gagcgaaagg ctgtgacaaa gaggagccct 120
gaggctccac agccagtgat agctatggaa gagccagcag taccggcccc actgcccag 180
aaaatctcct cagaggcctg gcctccagtt gggactctct catcatcaga gtctgagcct 240
gtgagaacca gcagggaaca cccagtgcct ttgctgcccc ttaggcagac tctcccgag 300
gacaatgagg agccccagc tctgccccct aggactctgg aaggcctcca ggtggaggaa 360
gagccagtgt acgaagcaga gcctgagcct gagcccgagc ctgagcccgga gcctgagaat 420
gactatgagg acgttgaggga gatggacagg catgagcagg aggatgaacc agagggggac 480
tatgaggagg tgctcgag                                     498

```

<210> 83
 <211> 277
 <212> DNA
 <213> Homo sapiens

```

<400> 83
gaattcgcg cgcgctcgac cttcagtcga tttacatat ggccaagttt gcttcctaaa 60
agttcagatg ttgtcatatt gtataatgc tcaagactct tccactcccc actgcctaag 120
gaattcagta cagactttctc agggcgcttt gaacacaaat ccaaccactc tacgcagccc 180
tatctcccac tgtccccctcc acaagcttca ttctttatta agatggggac tatctggtat 240
gcagatagcc agccacatct tccccctctgc cctcgag                                     277

```

<210> 84
 <211> 526
 <212> DNA
 <213> Homo sapiens

```

<400> 84
gaattcgcg cgcgctcgac ggatggtgaa cgggcaggag catctagtga ttgatggctt 60
ctgggtgttt ttaacgagag tttgaacaaa gactcagaaa tgggttttaa aataacagtc 120
ccatgtggcc cacatagaaa atattgggat attttaaggt gtggattcac tttcccatat 180
ttaaacactt gtttctactt ggtgaaatac acaggtgaca agtcaacttc aggaataatg 240
gtttttttta gaagatggga gttgggaatt tcttatattt tctctcact tcttaaaacc 300
acctttgtgc cctgtcttta cattaggaaa aatggaaaagg tgattaaaca cggccggttag 360
gagcctaataa tctaggtcag agtcccgtat gaaagaaatc agataagttg agagagggcg 420
tgtgcagggt ggaaatggtg gcgtccatct ctgctggggc gtcgatgcca cctggctgga 480
cagggtggagc ctggaaggta gggaggctcg gaacatgaag ctcgag                                     526

```

<210> 85
 <211> 307
 <212> DNA
 <213> Homo sapiens

```

<400> 85
gaattcgcg cgcgctcgac gtaaccccg ctcctctcct cccccaccg ctggaacca 60
cgactccgcc gccacacctt gcatttgact gctccaagta cctcaggaaa tgacctcatg 120
cggctctccg acgttcgctt ccattctgtt tatttccagc gtttggcccg tgggagcgat 180
gagcgcacct gttcagcccc tgccttcagt tctttcaggg agttctcagc tggctctcag 240
aggttcccac acgctgcttc ccacagcagc tgcaaccattg tacattccaa cagcaacaga 300
gctcgag                                     307

```

<210> 86
 <211> 194
 <212> DNA
 <213> Homo sapiens

```

<400> 86
gaattcgcg cgcgctcgac cgaggatttg gtgtaggaag agaaaaagag attgatgggg 60
taaatctgac tcacacatat atcataaact cttttccaag agatttgctg tcatcaattg 120
atcttcaaca gagacacgag agctagtcca tgaggaaaagg aaagcatata acaaatttgc 180

```

tgggactact cgag

194

<210> 87
<211> 223
<212> DNA
<213> Homo sapiens

<400> 87
gaattcgcg cgcgctcgac atttgggttct ttcctactca gaactactca gaaacaacta 60
tatatttcag gttatttgag cacagtgaac gcagagtact atgggtgtcc aacacaggcc 120
ttctcagatc aagggggaaca caattacata ttgggctaga ttttgcccag ttcaaaatag 180
tatttggtat caacttactt tgttacttgc atcaatcttc gag 223

<210> 88
<211> 265
<212> DNA
<213> Homo sapiens

<400> 88
gaattcgcg cgcgctcgac gacaacatca aaagcaactg atgactctgg aaaacaagct 60
aaaggctgag atggatgaac atcgcttcag attagacaaa gatcttgaaa ctcagcgtaa 120
caattttgct gcagaaatgg agaaacttat caagaaacac caggctgcca tggagaaaga 180
ggctaaagt atgtccaatg aagagaaaaa atttcagcaa catattcagg cccaacagaa 240
gaaagaactg aatagttttc tcgag 265

<210> 89
<211> 176
<212> DNA
<213> Homo sapiens

<400> 89
gaattcgcg cgcgctcgac aaattggaaa ctgtagaagt gttaatgtgt cctatggact 60
caatagcaga gtttattttt gtttttaatg gcaaggcttc tagagtcaat gattgtatga 120
gtttgctact ctggctgtgc ttacagcttc atccaagtac aaaggaagaa ctcgag 176

<210> 90
<211> 196
<212> DNA
<213> Homo sapiens

<400> 90
gaattcgcg cgcgctcgac ggtgtgttat tgtttttatt ggctgtacct ggtagaattg 60
aaaaatcagc atttctattg tagcctacta atttcagtga aatatttctt tagaaatata 120
aaatctggaa ctttccatca ttatgcctcc ccaaaataat agaggacttt acacacagat 180
aacacctgcc ctcgag 196

<210> 91
<211> 348
<212> DNA
<213> Homo sapiens

<400> 91
gaattcgcg cgcgctcgac ggggtgtgga aggagtgggt ggagctggcc tccctcagaa 60
tcaagctggg ctcacttgtg atttaggagg tatgaagtgg ggaatcagtc tttgtctacc 120
ttctgttccc tgcaccacaga cctcctccac tttcttaggg taagaaatgc ctttgatagg 180
ggtaaagcct ttctttccag agtttgagat cagagacttc aatatgcaaa gtcttggggg 240
atgctgacag atcagcacac gtgcttttta tatttaata attctcaca cctatgtggc 300
ttgtcaggaa tgaagaatct aaagcttatt gtgctagggg cgctcgag 348

<210> 92

<211> 350
 <212> DNA
 <213> Homo sapiens

<400> 92
 gaattcgcg cgcgctcgac gtctaatttc cttagtgcct gataatTTTT tattacggtc 60
 tggagatttt atttaaaatt acttgtcaga ataattttga ggcttataat aaacatactt 120
 tacttttaag agcaaaagttt gttctcttac ccaggagcat tgtcagtcag ggaacaactt 180
 aaaccaagtt ccttgagaac acattctaaa ttttttagaa cagcatctta ataaacaaaa 240
 acaacactca cgtttcagat tttatatttt tgtttcccaa aggatttata tcaactgtatt 300
 tccaagtcat tgtcatgtta atgtctttca aatcaacatc tctgctcgag 350

<210> 93
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 93
 gaattcgcg cgcgctcgac tttacatatt gtctattgct gctttttacac aagaacagca 60
 gagtgtgtga gttgcgacag agaccatctg gaccaccagg cctaaaatat ttactgtctg 120
 actctttaca gaaaaagttt atctggcctc tagtctaacc tatcaatttt aaaaaaacag 180
 ctttttggag aaagaattca catactgtgc aattcaccca tttatatata attcaatggg 240
 ttttagtata ttcacagaga tgtgcaacca ccacccagtc ctcgag 286

<210> 94
 <211> 140
 <212> DNA
 <213> Homo sapiens

<400> 94
 gaattcgcg cgcgctcgac gcattgagcca ccatgcctgg cccctttctt tcatctctcc 60
 taattttttc gacattctcc taccattttt ctcttttctt gggccttcaa tttgtgcccc 120
 cctccacccc caccctcgag 140

<210> 95
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 95
 gaattcgcg cgcgctcgac cgagtatttt actttattct ttttaagaaac tgagtcattt 60
 gtctctgtgt gtttccctt atctggattt tgtaatcata tcttggaatg tggtttcaga 120
 ggtgtctctg tcttttgtat ttcattgtcag tttatactcc agtcgataag ctcgag 176

<210> 96
 <211> 601
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (191)

<400> 96
 gaattcgcg cgcgctcgac aaacaaaaga atcaaaactac gctaaattga ttgaaatgaa 60
 tggaggagga accggtctga atcatgaatt agaaatgata agacaaaagc ttcaatgtgt 120
 agcttcaaaa ctacagggtc taccocagaa agcctctgag agactacagt ttgaaacagc 180
 agatgatgaa natttcattt gggttcagga aaatattgat gaaattattt tacaactaca 240
 gaaattaaact ggccagcaag gtgaagagcc cagcttggtg tccccaaagta cttctctgtg 300
 ctcaattgact gaaagactac tgagacaaaa tgcctgagctg acagggcata tcagtcaact 360

gactgaagag aagaatgact taaggaaacat ggttatgaag ctggaagagc agatcagggtg 420
 gtatcgacag acaggagctg gtagagataa ttcttccagg ttttcattga atggtggtgc 480
 caacattgaa gccatcattg cctctgaaaa agaagtatgg aacagagaaa aattgactct 540
 ccagaaatct ttgaaaaggg cagaggctga agtatacaaa ctgaaagctg aaccgctcga 600
 g 601

<210> 97

<211> 347

<212> DNA

<213> Homo sapiens

<400> 97

gaattcgcgg ccgcgtcgac gaagggaacg ttcagctgga aactggagat aaaataaact 60
 ttgtaattga taacaataaa cataactggtg ctgtaagtgc tcgcaacatt atgctgttga 120
 aaaagaaaca agcccgtctg cagggagtag tttgtgccaat gaaggaggca tttggcttta 180
 ttgaaagagg tgatgttga aaagagatat tcttccacta tagtgaattt aagggtgact 240
 tagaaaacctt acagcctggc gatgatgtgg aattcacaaat caaggacaga aatggtaaaag 300
 aagttgcaac agatgtcaga ctattgcctc aaggaacagg gctcgag 347

<210> 98

<211> 351

<212> DNA

<213> Homo sapiens

<400> 98

gaattcgcgg ccgcgtcgac cttacctgtc ctaggggagt aggcaagcac ttccactagg 60
 gagggggtgg gggaaaggaa tgacacatga catacatggc atacacatta agcagttgat 120
 catatgtctg actgggttcc agtttcttgg gaatgttggg ccccttgctc aggcttgcct 180
 attttaaact aaaaaatttc gtctattgtt tttagtaact tcatttatag tctccataa 240
 caagttagaa ggatgtatct gctaccattt attcctataa ttttagaaag ttggggcttg 300
 acattatact catttagtga gagtagatgc aaaaaagtgc aggggctcga g 351

<210> 99

<211> 446

<212> DNA

<213> Homo sapiens

<400> 99

gaattcgcgg ccgcgtcgac gaagaaggaa ggccgcgagt aggaaaggag gtactgtaga 60
 tgccctccaa atccttggtt atggaatatt tggctcatcc cagtacactc ggcttggctg 120
 ttggagtgtc ttgtggcatg tgccctgggt ggagccttcg agtatgcttt gggatgctcc 180
 ccaaaagcaa gacgagcaag acacacacag atactgaaag tgaagcaagc atcttgggag 240
 acagcgggga gtacaagatg attcttgttg ttcgaaatga cttaaagatg ggaaaaggga 300
 aagtggctgc ccagtgcctc catgctgctg ttccagccta caagcagatt caaagaagaa 360
 atcctgaaat gctcaacaa tgggaatact gtggccagcc caagggtggtg gtcaaagctc 420
 ctgatgaaga aacctgacg ctcgag 446

<210> 100

<211> 266

<212> DNA

<213> Homo sapiens

<400> 100

gaattcgcgg ccgcgtcgac ccgtccctct acgcgttttg gtccctgttt ggtgctttct 60
 gtttgcagct acggcagtg gatatcttg gcataggaac caatcagaaa caatcgcttc 120
 agcaatcaag accattgttc atcatggagg aacctatgga tacctctgag cctctatctg 180
 cattaccatt cactgggcag cagtcttttg agccaagtgg caaatttga cagtatccat 240
 cgatgcagat gaaccacata ctcgag 266

<210> 101

<211> 290
 <212> DNA
 <213> Homo sapiens

<400> 101
 gaattcgcgg ccgcgtcgac aaaaaagtta ctgtatttta gactaaatgg gaaagataag 60
 agatgatgct acagagtaat tcagaggcta aaacatgtag gggctcttga ggccatattt 120
 ctttaaaaaa cagattaaaa aaacttattt tgggaaaaaa ctttcggaga tggccaaaga 180
 acatgacaac tgccatcata cccttcattt gtattcattc attattaacg ttttcctaca 240
 tttgcttatt tctccgtata ggggtatttt tcaagactgc tgatctcgag 290

<210> 102
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 102
 gaattcgcgg ccgcgtcgac gcagactgtg caagctccca gctgttcctt cttctgctgt 60
 ccctagccaa caaacacagt ggcatttaca acttttggca tatagaaatt atatgtaaaa 120
 attcaggtag tactatttct tttagtcttg ttagtctctt tctctcteta tatatatgta 180
 tctctggaca tgcattctctg gttatatctt gaggtctttg ctgcaaccct cgag 234

<210> 103
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 103
 gaattcgcgg ccgcgtcgac ggggcccttg tcacgcttga aaatggctct actaagtaag 60
 ttccggatga aattaaagaa aacactcctt aggtccttct tttctgcttg ttcttggtca 120
 cctacaatgg gaggcagactt aaggcaagat tcacgggag ctacaggagg ttcattggca 180
 ggaaagtgg tgggtgccagc agcttcaacg aagctccgtg catcccttct tcccctcgag 240

<210> 104
 <211> 154
 <212> DNA
 <213> Homo sapiens

<400> 104
 gaattcgcgg ccgcgtcgac cgtcgattga attctagtcc tgtttctttg cctccccaac 60
 aaacaccgtg ttccaagaaa tgccaagcct gaagaagaat gaaggtaggt ctgaaatttt 120
 cagaggccca agcaagactc tggaaatctt cgag 154

<210> 105
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 105
 gaattcgcgg ccgcgtcgac ggtgttaggg gtttaaaggg agttgactga ataagggtcaa 60
 gatctgctgg tcttgaaaat gaaacatctt cattatttca aatgtgtaac aactactgct 120
 tgetatttgg cactatctgc ttctgtgctt catattaaat cctttaactt gcttcaatgt 180
 gcatgtgctg gattgagagc cacttttgtc cccctgggac cacaggaggg tcccggcgag 240
 gaaccccgcc ctctggctcc cggggcgctc gag 273

<210> 106
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 106

```

gaattcgcgg ccgcgtcgac gtggcctggg ctccctaatac aggtaaattg tctccaaagg 60
actagtaaaag gtgactgggt catcctcctg cccagggac actgattaga gaaaatccgt 120
ctgtgctggc aatacggcag tgctggacac tcggaattcc ctgaaggca aaagcaagga 180
acagagcgtg attaggtaact ggacacctgc caagtgcctg gctctctcca gtttacagat 240
gaggaaactg aggcctcctg ag
262

```

<210> 107

<211> 259

<212> DNA

<213> Homo sapiens

<400> 107

```

gaattcgcgg ccgcgtcgac tgatgggtata agtattttacc tgggacaagg ggcttccctta 60
tttggctaaa ttatctaaaaa tgcataaggaa gaatagaact tttagttggc tttttttctt 120
ttatctatct atctatctat ctatctatct atctatctat ctatcatctc gttctattgc 180
ccagactgga gtgcagaggt gcaatcatag ctactgcag cctagaactc ctgggtctcat 240
ycaattgtct cacctcgag
259

```

<210> 108

<211> 260

<212> DNA

<213> Homo sapiens

<400> 108

```

gaattcgcgg ccgcgtcgac ggtttttacca tcttggttaa caccgtgaaa cctgtctctt 60
actaaaaata caaaaaatta gctgggatta caggcgtgag ccaccgcgc cgcccaaat 120
aaaattttta aaaggatatt tacatcagtg tagtatgtga agtaacaag aaaaagataa 180
aactcacttt ttaagtaaaa acagtcatgt gcttgaagta tgttgaatc tttatcagaa 240
aagtatggga aggactcgag
260

```

<210> 109

<211> 255

<212> DNA

<213> Homo sapiens

<400> 109

```

gaattcgcgg ccgcgtcgac ttggattaca ggtccctgct gccacgccc gctaattttt 60
gtatttttag tagagatggg gtttctccat gttggctcag ctagtctcga actcctgacc 120
tcagatgac tgccagcctc ggcctcccaa agtgatggga ttacaggcat gagccattgc 180
gcttggccca ggacatttat ttttattgct aaatacattt cagtcattta tgtatttgtt 240
tttccccccc tcgag
255

```

<210> 110

<211> 423

<212> DNA

<213> Homo sapiens

<400> 110

```

gaattcgcgg ccgcgtcgac tcttccctag ccttggtcgt cgcgcgccacc atgaacaaga 60
agaagaaacc gttcctaggg atgccgcgc cctcgggcta cgtgccgggg ctgggcccgg 120
gcgccactgg cttcaccacg cggtcagaca ttgggcccgc cgtgatgca aatgacctg 180
tggtatgatc ccatgcaccc ccaggcaaga gaaccgttgg ggaccagatg aagaaaaatc 240
aggctgctga cgatgacgac gaggatctaa atgacaccaa ttacgatgag tttaatggct 300
atgctgggag cctcttctca agtgaccct acgagaaaaga tgatgaggaa gcagatgcta 360
tctatgcagc cctggataaa aggatggatg aaagaagaaa agaaagacgg gagctatctc 420
gag
423

```

<210> 111

<211> 203

<212> DNA

<213> Homo sapiens

<400> 111

```
gaattcgcgg cgcgctcgac attacctcat aagcattaac aaatcaggcc caaagagcgt 60
aagtcctaga aatttggttt aaagcagccc tagtcattgt gctggtgcta ccgccttgtt 120
ttaggagcct gcctcctgtc agtatgaaac cctcacctga aaaatgccag cctggacacc 180
aaacactgag ccccttctc gag 203
```

<210> 112

<211> 257

<212> DNA

<213> Homo sapiens

<400> 112

```
gaattaagaa ttgcgcccgc cgtcgacaaa aaaaaaaaaa aaaggatacc aaaattctca 60
agtcaaatta taagggtttt aacattccca tttctacacc acgtgcaaga aaaacaaaat 120
ccttggtttc tgctgcctt tatggtccgt tctcatttcc agcccccttt cctcattcta 180
ctctattaat tatgccttta tatggatgca aacttgtaaa atatgtggcc tattttgtgt 240
gtatacgtgg tctcgag 257
```

<210> 113

<211> 348

<212> DNA

<213> Homo sapiens

<400> 113

```
gaattcgcgg cgcgctcgac gttggaggag gaggaagagg aagtcgaaga ctgtggcttc 60
ctttttttgt tacttgagga ctgcgctgcta cgggtggaca ggtctttgac ttttgaggat 120
ttgctgggtt tggtttttga tggcttggg gatggggaag ggatgacggc tggatcggg 180
gacacggcgg atggggcctt gaagggtgag tccatgatgc tgagggttgc ggccacatga 240
gggaaagctg tgggtgtgga catgaggcgc ctccgggtccg gcgatgtcac gaaagctgcg 300
tttgagagca tggctgatgt catcatgtaa gaagaggtga gcctcgag 348
```

<210> 114

<211> 303

<212> DNA

<213> Homo sapiens

<400> 114

```
gaattcgcgg cgcgctcgac gggattacag gcataagcca ccgtgcccg cctgtagatt 60
tcatttttag aagggtttgt ttaacagtt taaatttgta actcacataa aaaaaactta 120
ttataagaaa gagaaactag gtgttaggat aagtaaaaca ataagcattt ttgtctcttc 180
tgtttttcta gattttaatt gtttaactta ataaaatcac attaatggg gttcaactac 240
ttcacatttg taataacttt ggggtgttaa attgagatga aattcatcag gggaaaactc 300
gag 303
```

<210> 115

<211> 214

<212> DNA

<213> Homo sapiens

<400> 115

```
gaattcgcgg cgcgctcgac aaaaaagaaa ggaagtggca tatttggtta attgataaat 60
taccactgtc aaattatatt ggtgagtcta tatctattgt tgtcccaga tgttgccttt 120
gcaagaatta gtgtaaaatt ggaaaaata ctcaatgttg aaagctgtca ttgttgagat 180
ctttatgaaa ttattgtgcc catgtccgct cgag 214
```

<210> 116

<211> 230

<212> DNA

<213> Homo sapiens

<400> 116

```
gaattcgcg cgcgctcgac tgcagatttt tctcttcacc tcatcaacag gtgatatagc 60
ccttttggtt gcttggcttt aagtacagtt cttagattca gctcctctac tttgtcaagt 120
ctaaatacta ttcctcagtg atgctgataa ccagcaaagt tttagtttct atgttgggca 180
tatttttggg gcagccctgt aaggatgtgc tccatggtac aagactcgag 230
```

<210> 117

<211> 195

<212> DNA

<213> Homo sapiens

<400> 117

```
gaattcgcg cgcgctcgac attaatTTTT cctgagagca gtagacttga ttagatgccc 60
ttttgtagtg tcatcaaatc ttagattatg agctcaaaga ttttatctct atatacacia 120
tttctaatat taaaaaaaat agtcggggccg ggtgcggttg ctcaggcctg taatccagca 180
cttaaggggc tcgag 195
```

<210> 118

<211> 460

<212> DNA

<213> Homo sapiens

<400> 118

```
gaattcgcg cgcgctcgag aagatcctat tcaagagctg accatagaag aacatttgat 60
tgagagaaag aagaaattac aggagaagaa gatgcatatt gcagccttgg catctgccat 120
attatcagat ccagaaaata atattaaaaa attgaaagaa ttacgttcta tgttgatgga 180
acaagatcct gatgtggctg ttactgttgc aaagctggta attgtttctc tgatggagtt 240
atttaaagat attactcctt catataaaat cgggcccttc acagaagcag aaaaatctac 300
taagaccgga aaagaaaccc agaagttaag agaatttgaa gaaggcctgg ttagccaata 360
caagttttat ttggaaaatc tggaaacaaat gggttaagat tgggaagcaga ggaagctgaa 420
gaaaagtaat gtagtttctt taaaggcata cggactcgag 460
```

<210> 119

<211> 239

<212> DNA

<213> Homo sapiens

<400> 119

```
gaattcgcg cgcgctcgac cagacagatc aaatggaaag gctcccccat cctgtcctct 60
acaccacctt gcagctgggc ctcagcaact gggtttttaa tttcagtcta attcaagtca 120
gcagcatagg gcagctcctg ggaaattggt ttacacatgc ggacaagccc agtagcccag 180
agctaacca ctcaccatcc ctgaccacag aggagcagat aaggaagcaa gaactcgag 239
```

<210> 120

<211> 191

<212> DNA

<213> Homo sapiens

<400> 120

```
gaattcgcg cgcgctcgac tgggcatcat ctccataatc ttttcataaa gcatcaatga 60
tttcattatt cctctaccca aacttttaca gaagtatttt tttttttgag ccagtatctc 120
gtcccatcac ccatgctgga atgcagtggc atgatcatag ctactgcag cctcaacctc 180
ccaggctcga g 191
```

<210> 121

<211> 227

<212> DNA

<213> Homo sapiens

<400> 121

gaattcgctg ccgcgtcgac tttcttttga tcaactatgag gtgtcactat gtggtagtag 60
 cgagggtcaga ctgtagcgag tgtttaaaagt ttgcttcctt tgttttctgg gcttgtgggg 120
 ctttttgtgg tacctgccct agcctagtca gtcattcccc atgctgcccc cttaggctag 180
 agatgcccta ccgccctcag gcctcgctga atgtgccaaa cctcgag 227

<210> 122

<211> 166

<212> DNA

<213> Homo sapiens

<400> 122

gaattcgagg ccgcgtcgac tgactcatag tcaagaccct ccaccagtaa catatatagg 60
 cgagccagcc aggagaccac tacaggaaac actccattta tccacctga cttcccactt 120
 ggctgcaccc tcaaccattg aaatgaattt gacctgata ctcgag 166

<210> 123

<211> 223

<212> DNA

<213> Homo sapiens

<400> 123

gaattcgagg ccgcgtcgac ctaaaacccc agaatcatta ttgttgcac tctttatatt 60
 ccattctaatt attcatcaaa tagcagtaat gctttctttg aaatgtcttc tatatatctt 120
 tgttttctgt tctgtcttct atctcctcat ttctgttctt tccccttccc cttctctcga 180
 tttacttcta acagctttat gtccctttca gtcgacctc gag 223

<210> 124

<211> 178

<212> DNA

<213> Homo sapiens

<400> 124

gaattcgagg ccgcgtcgac cagactggca acaaactttt gagtgagtgt taagatacaa 60
 gaaaccctaa aggttcctag gagaaatgac tttaaactta gaattccttt ttttaatttg 120
 gtccacacag ggtctcaatt tgttgcccag gctgctgtac aatggcccag atctcgag 178

<210> 125

<211> 226

<212> DNA

<213> Homo sapiens

<400> 125

gaattcgagg ccgcgtcgac agaaaagcac aaattagttt taagtgaaaa gttgaaaagt 60
 aagttcgata aattaacatt caccatttgt ttttttttaa taaaggtaaa aatcactaaa 120
 ataaacagcc cactttaaca aaaaataggt gcaataaaac tataaaagag aaagcaaggg 180
 agtgatgaac agaggttgta gggatgatgat acggaggata ctcgag 226

<210> 126

<211> 220

<212> DNA

<213> Homo sapiens

<400> 126

gaattcgagg ccgcgtcgac gtttcaaagc cgtagacacc ttttattcag ggctggtaag 60
 cttcactggg gtttttggtc tcttgccttt tttttttttt ttaaatctga ttacaatggg 120
 gttgcacact gttgtgggtt atcgtttttt agtgatcctg ttgtcgaata accctccagt 180
 gctctgctct gaaacagcac cagaacecca cccactcgag 220

<210> 127

<211> 216
 <212> DNA
 <213> Homo sapiens

<400> 127
 gaattcgcgg ccgcgtcgac tcgtccagta ccagtgccac gcagtttaaa tagtgatatt 60
 tcctattttg gtgttggggg caagcaagct gtctctcttg ttggacaatc agccagaatg 120
 ataagcaaac ctgcagattc ccaagatgtt cactgacttg tgctttctaa agaagatttt 180
 gagaagaagg agaaaaataa agaggcagct ctcgag 216

<210> 128
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 128
 gaattcgcgg ccgcgtcgac gcaaactagt aagtatgagg ttttcagctt caaatacaaa 60
 accgtaatga tactagctga cattattgag tgcattcaga atactttagt ggacttttta 120
 taagaattat taatatattc caaaggatta ggaatgttac ttttcattgt ctccctcgag 180

<210> 129
 <211> 204
 <212> DNA
 <213> Homo sapiens

<400> 129
 gaattcgcgg ccgcgtcgac ttctctctct ctctctcttg ccatttttagc gtgcattgatt 60
 tcattttttt tgttggcacc tgtaagggtg tatcttttct ttgccacagcc ttgggttatg 120
 gttacatctt cccattgtct attgccacc ctccagtttg cactctctgt gcgctccttg 180
 ctgggtgaag ccgggcctct cgag 204

<210> 130
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 130
 gaattcgcgg ccgcgtcgac ctgaggggatg ctcatcttta acagtctccc tcatgtactt 60
 ttgctgtttt acacagagaa acaggtagac ccacagagg agaaggaggg gattcaacag 120
 ctttattgtc tggaaagcagt gagatttggg gattgtcttg ggggattcct gggtttccct 180
 ggggtacctg ttccaggcag tcagtccatt tgccttcta gtacaagccc cctcgag 237

<210> 131
 <211> 250
 <212> DNA
 <213> Homo sapiens

<400> 131
 gaattcgcgg ccgcgtcgac cttgtagata ctttttgaat ttaatgtcgt tagaattgct 60
 tcttttttta atgctctatc taggtgaaag atatgatcct gagcccaaat caaatggga 120
 tgaggagtgg gataaaaaca agagtgcctt tccattcagt gataaattag gtgagctgag 180
 tgataaaatt ggaagcacia ttgatgacac catcagcaag ttccggagga aagatagaga 240
 gactctcgag 250

<210> 132
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 132

```

gaattcgcg cgcgctcgac atttatttaa ataatatagt tccatatttt ttagtatatt 60
tacagagttg tgtaaccatt accacaatct aattttggaa cactgtcttg gctcctgaaa 120
gatcctgcaa accattagca gtcacttctc atttctctct tccccagccc ctggcatcca 180
ctaattctact ttatgtctct atggatttgc ctactctggt tgtttcagat aacatttgga 240
ctttgtgaca gactcgag                                     258

```

```

<210> 133
<211> 139
<212> DNA
<213> Homo sapiens

```

```

<400> 133
gaattcgcg cgcgctcgac ctttcccaaa attcagaagt taatgggctt ttatgttttt 60
ctatattttt ttattttcaa tgatttggcc tgtctatgtt aggctaaaaa ataaccttgt 120
gtatgctacc aacctcgag                                     139

```

```

<210> 134
<211> 201
<212> DNA
<213> Homo sapiens

```

```

<400> 134
gaattcgcg cgcgctcgac ggagaagtaa gaattgtaag ggaggttcag tagtggggaa 60
ttctgtgaca gctgattgaa gatgatgatg aagaacctct gcattctagt taccctttgc 120
ttcccttcac ctcttgtaaa atttggcttg gcaacaatga cattgtcatg cttattgtcc 180
caatatccat ccaatctcga g                                     201

```

```

<210> 135
<211> 132
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (84)

```

```

<400> 135
gaattcgcg cgcgctcgac ctgaggttg tctaagagga aacaaaaaa gagctggaag 60
agaacaagcg atccctggct gcantggatg cactcaatac tgatgatgaa aatgatgagg 120
agggctctcg ag                                     132

```

```

<210> 136
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 136
gaattcgcg cgcgctcgac agaagacata ctaatagaac tccttgcttt taattgggga 60
aatagggttt taataatttt gacctcaact aaaaatgata tgcaatagtc tctgtgtgtg 120
tttgaaatac attgtgttct cagagatttc tacattctca cgttctagtg atttggggca 180
tagactcgag                                     190

```

```

<210> 137
<211> 220
<212> DNA
<213> Homo sapiens

```

```

<400> 137
gaattcgcg cgcgctcgac atcacaatga gaccgttggc ttggaatttg agtcgttggg 60
tcccatgggt agatgcttgt taagacttta tacttgggtc aatctctcac ttatatttgt 120

```

agaaccattt gaaatectag gatgtgcttg ttotggaagg atgacatggg cccagactga 180
acaagtcagc ttgatgatct taaatgatgg gcaactcgag 220

<210> 138
<211> 156
<212> DNA
<213> Homo sapiens

<400> 138
gaattcgcg cgcgctcgac tgcatttttt ggtatattaa tcttgtatcc tctaaccctg 60
ataatgcatt tattagttca tagtggtttt tgcttttttt gttctttttt ggtaaatgcc 120
ttaggatttt cttttttctc cgactccccg ctcgag 156

<210> 139
<211> 239
<212> DNA
<213> Homo sapiens

<400> 139
gaattcgcg cgcgctcgac ctgaaaaataa ggaaaatgtt agggacaaaa aaaagggcaa 60
catttttatt ggctctgttg atgagcgcc ctgtttgctc ggacaaggcc gaaggaagca 120
gcagctctac tggtgcagg cttgacatcc gggtttctag ctctgaacga gaagcagagt 180
cctggaaact atcaaacaca acctcgccg tggcaggctg cactcccaca atgctcgag 239

<210> 140
<211> 169
<212> DNA
<213> Homo sapiens

<400> 140
gaattcgcg cgcgctcgac cccgcctcaa cctcacgagt aagctgagac tgcaggctcc 60
accacaccca gcgaatttat ttatttttgt agagatgagg ttccacctt ttgccaggc 120
tggtctcaaa ctccctggcct caagtgatct gaccaccagc ggctcgag 169

<210> 141
<211> 222
<212> DNA
<213> Homo sapiens

<400> 141
gaattcgcg cgcgctcgac aaaacgcctt atgatgaatc taagtcttat attggctgtg 60
atctttgtac taactgggtat catggagaat gtgttggcat cacagaaaag gaggctaaga 120
aatggatgt gtacatctgt aatgattgta aacgggcaca agagggcagc agtgaggaat 180
tgtactgtat ctgcagaaca cttatgatg agtcacctcg ag 222

<210> 142
<211> 198
<212> DNA
<213> Homo sapiens

<400> 142
gaattcgcg cgcgctcgac tgccaaattt tttaaatctc gaaattggct ctaaaagaga 60
cttcataat catctggttc aatgagagat ctttttactt tatttattat tttattttat 120
ttattttatt atttatttat ttttgagatt gtgccattcc actccagcct ggggtataaa 180
gctggactcc gactcgag 198

<210> 143
<211> 238
<212> DNA
<213> Homo sapiens

<400> 143
gaattcgcg cgcgctcgac tattcttgct ttgctggagg cagatctgaa ggatgcatc 60
tctcctgtgg cttcttctag tgtgggggtcc cgaagcctgg cttccccagc cgatgtgctg 120
ctttagtcag cgtctgcctt ggtccttcgg ttgcagggct cacacgcttt tttgggttgt 180
gtcccttttg actgcagagg ctacgtgtcc tgtgaccaac cacggaggcg gctcgcag 238

<210> 144
<211> 151
<212> DNA
<213> Homo sapiens

<400> 144
gaattcgcg cgcgctcgac ctaaagtcca gtgtttccag agacttttga aagtcaactt 60
acactttttc cttcttcatt cacaaagctc ttcttccctg ggccctggta tgtatgcctt 120
tctctcctac tgtctaatag cgagcctcga g 151

<210> 145
<211> 186
<212> DNA
<213> Homo sapiens

<400> 145
gaattcgcg cgcgctcgac caggatgttc ttctatctcc attcatctac cttggtgttt 60
ctttgtcttg cctccttgc ctggtgtgct gagcaatatg gggcaccttc atttctgcag 120
tcagagggtt ggccactggg aatgagaaga accacctctg taccttggga tgctgtgtca 180
ctcgag 186

<210> 146
<211> 460
<212> DNA
<213> Homo sapiens

<400> 146
gaattcgcg cgcgctcgac gggctcctgaa gccctctgtc tacctgggag accaggggacc 60
acaggccctta gggatacagg ggggtccctt ctgttaccac cccccaccct cctccaggac 120
accactaggt ggtgctggat gcttgttctt tggccagcca aggttcacgg cgattctccc 180
catgggatct tgagggacca agctgctggg attgggaagg agtttcaccc tgaccattgc 240
cctagccagg ttcccaggag gccacaccat actccctttc agggccaggg ctccagcaag 300
cccaggggcaa ggatcctgtg ctgctgtctg gttgagagcc tgccaccgtg tgcggggagt 360
gtggggccagg ctgagtgcac aggtgacagg gccgtgagca tgggacctgg tgtgtgtgag 420
ctcaggccta ggtgcgcagt gtggagacag gattctcgag 460

<210> 147
<211> 244
<212> DNA
<213> Homo sapiens

<400> 147
gaattcgcg cgcgctcgac caccttccat ccattttccc agtccagaaa tttaggagtt 60
atctctgatt ccttctttat tcttaatccc attttccata cataatcaag cccctgggtc 120
agtcagttct tgctgcccac gatttctcaa ttctgtctgt ttgccatatg tgaatcatat 180
gtactgtgt tacctttgca ttagtcttag tttttcattt aaatatatto agtgtgagct 240
cgag 244

<210> 148
<211> 165
<212> DNA
<213> Homo sapiens

<400> 148

```

gaattcgcg cgcgctcgac atttcatgaa cttaggatgt gttttttatt catgaaaaac 60
ttagaatagt gaactattaa tatttataaaa cgagaaatac aacattttaa aaattaagag 120
tattttgcat tagtgattat gattcttate ccaaaattcc tcgag 165

```

```

<210> 149
<211> 252
<212> DNA
<213> Homo sapiens

```

```

<400> 149
gaattcgcg cgcgctcgac gaagcctcat tggagcagat tgccttataaa tctttttcct 60
tctaatttca ggattggcat ctctctgtctt ttctctgctt cttggcattt tagcatatct 120
ccagtagggg gtctctgaat tctgaatacc aatttacgcc aaattatggt cattagtgtc 180
ctggctgctg ctgtttcact ttatatattt tctgtgtgca taatccgaaa taagtatggg 240
cgagatctcg ag 252

```

```

<210> 150
<211> 136
<212> DNA
<213> Homo sapiens

```

```

<400> 150
gaattcgcg cgcgctcgac agacattggt ctttagccat tgtatcttta atagtctttt 60
aaacacattc atctctgggc taaaaatgct ttttaaaaaa accaaaaaga gtactttttt 120
agaagcattg ctcgag 136

```

```

<210> 151
<211> 188
<212> DNA
<213> Homo sapiens

```

```

<400> 151
gaattcgcg cgcgctcgac cccaacctga agctgaagaa gccgccctgg ttgcacatgc 60
cgtcggccat gactgtgtat gctctgggtg tgggtgtctta ctctctcacc accggaggaa 120
taatttatga tgttattggt gaacctccaa gtgtcgggtc tatgactgat gaacatggac 180
acctcgag 188

```

```

<210> 152
<211> 181
<212> DNA
<213> Homo sapiens

```

```

<400> 152
gaattcgcg cgcgctcgac atttttactg caagttaatg ctggaaaaac agggcaattt 60
ttcacagaga gaacatccta ataatatcag tttagtacia aatagcggca tcttagtgaa 120
ccttgtaatt ttcttttttg ttgcagttgt tgctagaaaa cataatcgga aggacctcga 180
g 181

```

```

<210> 153
<211> 251
<212> DNA
<213> Homo sapiens

```

```

<400> 153
gaattcgcg cgcgctcgac caacctctcg gcttagtaag ttgtggtttt tctgaccttt 60
ttaaagtttg agaggacatt ttatttatat taaccaattt atttgaattt cagtctcaga 120
agtattaaat attagttcat aagattgtta atctgctggg tcaggcaaat acagaagagt 180
ttttcacttt attcttgatt attttactta tgatcatttc caatttagtt ggggtaataa 240
cctgcctcga g 251

```

<210> 154
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 154
 gaattcgcgg ccgcgctcgac atttggttgag ttttgaccac tgcgcctggc tcatattttc 60
 ttttatatc aaaacaattc agcttgettc acttttatga aagctttatt atgagtttga 120
 aagcaattct gcattttctt aacattgtaa ctgggtgtga gttgaaggca ggccctggg 180
 agccctttgt gggcaattcc ctccactctg gaggtgcct cgag 224

<210> 155
 <211> 145
 <212> DNA
 <213> Homo sapiens

<400> 155
 gaattcgcgg ccgcgctcgac ctgtcttat tcttgatttt aggggtgctca ctcttagtct 60
 tttgccatta tattgtttta tgttggtttt ccataacctc actatgctga atagcagttt 120
 ggcactctgt ctggctgctc tcgag 145

<210> 156
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 156
 gaattcgcgg ccgcgctcgac cagctatttt attttaaaag ccaaaatatt tttaaactag 60
 ttttaaatTT tgacgctttg aatagataac acttttacat ggttcaaaaa taatataaag 120
 agctatacat tgaaaaatgt tgcttccact cctgttctc gag 163

<210> 157
 <211> 197
 <212> DNA
 <213> Homo sapiens

<400> 157
 gaattcgcgg ccgcgctcgac agagcttact gagttaattg ccaggagatg tatctaagtc 60
 agagggttggg gttgctctc tgtgttttgc tgggttcgtg cagagctgct tttgtaccag 120
 gtttctacca ctgggggtgc tttttgcttt tcttttcaact tcccacatct caagcacctg 180
 ctgcgggtca gctcgag 197

<210> 158
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 158
 gaattcgcgg ccgcgctcgac ttaaaaattt gtgaagcgtc gcatattttt tcagttattt 60
 tagtattaac aaacaaattg aagatcattg gtttatataa cccctgaga gactaatagt 120
 agaatagaac agaataatag aatagaatag aacagaatag aataatagaa tagaattata 180
 ggtatgagcc gtggtgcctg gcttctaata gtttttttgt tgtgttggt gttgtttttt 240
 atggcttccc tcgag 255

<210> 159
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 159

gaattcgcg cgcgctcgac tggagtggga tgggaatttag caaaggtaga tagaacaaca 60
 gtgatcacat tgcttaagag tttctgggtt tttttgtttt ttgttttttt tgagatggag 120
 tcaggctctg tcgcccaggc tggactcgag 150

<210> 160
 <211> 114
 <212> DNA
 <213> Homo sapiens

<400> 160
 gaattcgcg cgcgctcgac cttattccaa cttttctttt aaaacaccag caaacgtatt 60
 tgtgaatctc tcttatcctt gaaacttctt atgctgttga taaacttact cgag 114

<210> 161
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 161
 gaattcgcg cgcgctcgac ctatgaatca cgatactacg atgatcctcg ggaatacagg 60
 gattacagga atgatcctta tgaacaagat attagggat atagttacag gcaaagggaa 120
 cgagaaagag aacgtgaaag atttgagtct gaccaggagac ctcgag 166

<210> 162
 <211> 182
 <212> DNA
 <213> Homo sapiens

<400> 162
 gaattcgcg cgcgctcgac attctttgtt accctttaca agtataagt tttacaagta 60
 taagtgttac cttacatgga aacgaagaaa caaaattcat aaatttaa atcataaattt 120
 agctgaaaga tactgattca atttgtatag agtgaatata aatgagacga cagcttctcg 180
 ag 182

<210> 163
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 163
 gaattcgcg cgcgctcgac cttttttctc tctctctttt aaataaacac aagcttcaaa 60
 taagcacaca ataagtctgg gcaagcctac tgggatttgg gattctctag ttagttttct 120
 ttgcctaact gagatateta tttcatacta ctcttcattc cccaaatata tcattccct 180
 ctctacctcc cctcccagct gccccacaa cctcgag 217

<210> 164
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 164
 gaattcgcg cgcgctcgac gcacaatagc agtttctaag caatgaatga gaggacacgt 60
 atgttggtga ctttggtgtt tctcttcac cctccaataa ataaaaccga gagttttgtg 120
 gacagggatt tattagagtt tcatcattta gttgacaggc tcgag 165

<210> 165
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 165
 gaattcggcg cgcgcgtcgac tcgtgttaac aactttttgc ttgtttggat tgtttcttta 60
 ggatacatct ccagacatat acttagaaca tcaaaaacgt atggacatct ttttgatttc 120
 tcatgtgtta tattatgtcg catgtgttat gttatatgta tatatatata tgtataaacac 180
 atatatatat gtcattgtgt atattatgtg ggggggaaaa actcgag 227

<210> 166
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 166
 gaattcggcc aaagaggcct agtttatgaa acttaccaga aaataaaagg accaatctaa 60
 aataaagaat ctctattgta tttttctact gacaatgcaa atgcttatct taaaacatct 120
 aattttttcc cctttttcac aggcaagcac aactgtaaca ctccagaat ctccagttct 180
 tgccagttgt cattctgaag catccctcga g 211

<210> 167
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 167
 gaattcggcc aaagaggcct agaattaaaa ccataaatct atatcttagc taagatagga 60
 aaaatttact aaaatatctt tttctggttg aatttcagat ttctctata actctgcaca 120
 ccagaaaaaa atctatagta caaatacaca tgaaattcca tcaactgttt catttttttt 180
 taatttttct taattctgtt cagggcatac atctcgag 218

<210> 168
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 168
 gaattcggcc aaagaggcct aaagccaggt aaaaatttta aaaaagatga aatcctttct 60
 ggcttctgcc agaggctctg cattcttcat atctctgttc ctcatcagtc actgcaaagc 120
 tgatcagaca gattggcatg gtgttcagca ttttgagttc cagactctgg cgatgggaga 180
 taggtcattt ggaatttttc cctcatcccc tctcctaaaac caaatcagaa atctcgag 238

<210> 169
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (31)

<400> 169
 gaattcggcc aaagaggcct aggttgatta natatttttg ctattgtgaa tagtgctgca 60
 gtaaacgtga ggggtgccc atctctttga taaactgatt tcttttctt tggatagata 120
 cccagtagtg ggattgctgg atcatatggt agttctatct atagtttttc tttttttttt 180
 gagacggagt cttgtctgt caaccaggct ggagtgcagt ggcattgatct cagctcactg 240
 caacctccgc ctcccggggc tcgag 265

<210> 170
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 170

gaattcggcc aaagaggcct aggatattcc agcaaagtct ctaactgcag cctgtagaca 60
atttgctatt aaagattcag tgcacaaaat atagctaaca gcttttaaat ttttactttt 120
aaccagtctg gggatttgct tgcttgggga gtctcatatg ccataattatg aatatgaaaa 180
taatgaagtt aatttcctgt tgcctttctg tgtcagccac aaacctcgag 230

<210> 171

<211> 293

<212> DNA

<213> Homo sapiens

<400> 171

gaattcggcc aaagaggcct aggaatggct tgatgggtgc aggctatgct gtgactgggg 60
ctgtcctggg ccaagacagg ctgatcaact atgccaccaa tgggtccaag ttcctgaagc 120
ggcacatggt tgatgtggcc agtggccgcc tgatgcggac ctgctacacc ggccctgggg 180
ggactgtgga gcacagcaac ccacctgct ggggcttctt ggaggactac gccttcgtgg 240
tgcggggcct gctggacctg tatgaggcct cacaggagag tgcgtggctc gag 293

<210> 172

<211> 139

<212> DNA

<213> Homo sapiens

<400> 172

gaattcggcc aaagaggcct agggattttt tactagtgat ttaatgttac tacttggtat 60
tggctgttgc aggcctttctc tcttctgat tcaagctggg cagggtgtat gtttccagga 120
atttaccatt tcctcgag 139

<210> 173

<211> 149

<212> DNA

<213> Homo sapiens

<400> 173

gaattcggcc aaagaggcct agtgagagtg acatcatgca ggaattactc gtattgaaca 60
cactttttct agatattctt ccaatccccg acgtcgggca tctaattgtt gttctgataa 120
tgaaaatggc cactcccccg ggactcgag 149

<210> 174

<211> 209

<212> DNA

<213> Homo sapiens

<400> 174

gaattcggcc aaagaggcct actcgaagtt cctcaaatac accaaagact ttcttggcct 60
aaataatttt tatgtatcta tttctgcatt ctacagtttt ctttttctt ttatctacco 120
aaccaaatct ttcaaggcct agtgaaaatg atttccttcc tgagggtcagt ccttgcccaa 180
aaagatccct cacatcctct aaactcgag 209

<210> 175

<211> 223

<212> DNA

<213> Homo sapiens

<400> 175

gaattcggcc aaagaggcct aatcatatta taactgatta gacaaaatgt ggcattattg 60
tttttatttc ttttgtgttt tacaaggctt cactctgttg ccagggttg agtgcagttg 120
tatgatctcg gctcactgca gctggacct cctaggctca agcaatctc ccacctcgcc 180
ccccacata gctgggacta cagggtcgag ctatcgactc gag 223

<210> 176

<211> 151
<212> DNA
<213> Homo sapiens

<400> 176
gaattcggcc aaagaggcct agtttcttga atgtaacatg acatttctca tttccatacc 60
ttcatttatg ttgtttatc ttggaatgct cttccttcat tttgatgctt cacacgctaa 120
tacacatcct tcaagaccca attcactcga g 151

<210> 177
<211> 327
<212> DNA
<213> Homo sapiens

<400> 177
gaattcggcc aaagaggcct aaacataatt agttgtttat atacttcttc tttaatccca 60
gagttcgatt taaaaaatat ttgattgctg tttttgtata ttatctcagt gctctaaaaat 120
taccctagca aacgtgcagg aatgggtgta ggccccctaa ataaaaa-gg aattagttat 180
gttgggtttt ttttttttgc tgtttcactg ttacaattcc ccactgtcaa aggtctcttc 240
cacaaattttg tgggattagg gacaatggga tgtcatctct cagctggcta cttcttgccg 300
aacagggtca acgcggggca actcgag 327

<210> 178
<211> 500
<212> DNA
<213> Homo sapiens

<400> 178
gaattcggcc aaagaggcct agagggggcg tgcgagggtat actgctctcc tctctgggat 60
ctgtgagtaa tacactacct ctgctatttc atgcacccct gctatttcac gttgcttctt 120
ctgtgtctca cctgcccagc acacctgaat ctacagtatt tcttggtcag ggcattccta 180
gagagtggct atcttggtag gaataaacca gaaacaggtc agacaagagc cccaagagtg 240
tctgtcaata taatcaagtc cttatgagag aggacatctg gtcacagggtg gacacttagg 300
cattaggcct tccaccagaa agaagtatcc caagaaaggc aactgcaga cagccacgac 360
cactcctctt gcatacagagc agggctagag tttatagcca cttcttagag agagctcaag 420
aactaattag aaagaaaaaa aaatacaaca cacttgctca tgttaaaact gggatttgga 480
cccatgccat ctggctcgag 500

<210> 179
<211> 226
<212> DNA
<213> Homo sapiens

<400> 179
gaattcggcc aaagaggcct agttgagggg aggttggttt catggtttta cttttggttt 60
tttgaggact atgtttgttt ttatttttat tttttatttt ttatttttg agacagaatt 120
ttgctattgt tgcacaggct ggagtgcagt ggcacgatct cagctcactg caatctccgc 180
ctcccagggt caaactatct tctgctctca gcttcccaag ctcgag 226

<210> 180
<211> 272
<212> DNA
<213> Homo sapiens

<400> 180
gaattcggcc aaagaggcct aatgtggctc tttctccttt ttcacctatc ttgatttga 60
tgctcagaat atgttctctc tgggtgccat ttgacagcta agtttcccaa ggatagctca 120
gctttcttta ggagttttct tcttctcatt cctaccatga tgtgagaatt gactgagctg 180
gtttctctct atttgttgta cacattacta gtaaccatta cttataatta ttttagatga 240
tgctagcctc atttttactg ataaggctcg ag 272

<210> 181
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 181
 gaattcggcc aaagaggcct aagaatgtgc atacatgttt tcatgagtgt cctttgggtg 60
 ctgtttcttt taaatcctct gtgcacaggg ctctggcctt tagtaaaactg tttttctgtc 120
 ttacgtcatg ctgactgggt gctaggggct gattacaaag gggaagagtt gaacagacat 180
 caggggccga tgaaactaaa tggactcgag 210

<210> 182
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 182
 gaattcggcc aaagaggcct acgttctgca agtactagtt aatacaataa aactagagag 60
 agaaaagaggt aattcaaagg caggaggtaa aatgatcact acttgcacaa tgagtgtata 120
 cctgaagaaa cccaagggaa tccactgaaa aactactatc aacatgaaga gagtttcaga 180
 aaagatgaca gctgggtaca aaattaacac agagaaccca ataggtatca catataaacc 240
 aacaactagt gagaagatac aatggaagaa atggccttat tttcaaaagg aacaaaaagt 300
 taaaatatta taagtcaatt tcacaggaaa tgtctaaaac tcccagactc gag 353

<210> 183
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 183
 gaattcggcc aaagaggcct aaagacatca aggcattcaa tgcataccgt tttggttttt 60
 atttctctct gtctttgtct ttctggattt tcatctcatg taaagcatgt ggggggttta 120
 tttttatatt tttgtgtgtg tgtgcagtgt ctgcccgaag caagtctctt gggaggagga 180
 ggcggcagca cactcgag 198

<210> 184
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 184
 gaattcggcc aaagaggcct attttaattc tatttttcat ttgagctgac ttgtagccac 60
 ttcagactat caatggaatc ttatgttgag cctttctctg gctttccttc ctccactatc 120
 tctccaactt tagagatcat cccctctccc tccagtgcgt tctatctccc ccacaccac 180
 cctagatact cccttttcac ccacctcttc ctcgag 216

<210> 185
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 185
 gaattcggcc aaagaggcct aaaggctgaa tatgaggaaa aattcctggt acaagggtcat 60
 actaagcatt ttagttccac ctgccatatt gctgttagag tataaaacta aggctgaaat 120
 gtcccatatc ccacaatctc aagatgctca tcagatgaca atggatgaca gcgaaaaaaa 180
 ctttcagaac ataacagaag agctcgag 208

<210> 186
 <211> 184
 <212> DNA

<213> Homo sapiens

<400> 186

```
gaattcggcc aaagaggcct aatttctcat caccgaagc tgcaaatctt ttcaaatgtt 60
atatttcata ttgtgggttac tgtctccaaa tatcttctct ttcttctctc ttcaattgcc 120
ttgcagctgg caagtctctg gagtccctgt cccctgccat tgcccaactga acagacatct 180
cgag 184
```

<210> 187

<211> 239

<212> DNA

<213> Homo sapiens

<400> 187

```
gaattcggcc aaagaggcct aggtagactt cctgtgatct tcagaaatca tctacctggt 60
aaaaatacat gctgttttaga atatctgata ggtgtttcca gctactatta gaggtgatag 120
tgcttttctg ggggaaaaaa ttggtcatgg tgaatggaga tcgaggaagc tcgggacaag 180
ggaggggtgg gctgctctgat ttgtccagt ttccaaata tccacgcaat gaactcgag 239
```

<210> 188

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (151)

<400> 188

```
gaattcggcc aaagaggcct agtgtgtgtg tgtgtgtgtg tgtctaattc aaattataca 60
caaggagttt gtgcaggctt tcttttagagg cagaagccag ttaggcaggt caagaataat 120
ataaaatcac aaatgaagag aataatgtgt ntatttttca ttgtctattt aggactgtct 180
gggggagact gtctctctct gggcggaaga ctcgag 216
```

<210> 189

<211> 303

<212> DNA

<213> Homo sapiens

<400> 189

```
gaattcggcc aaagaggcct acaatcttta gcttccatag tgtcacacac tattaaattt 60
ttctcttctc cattagctgc acctactcat tctctttgtt ggttctctct catcttcttg 120
acaacttttg cagctgcctc catggcattt ccacttggtt atctattaat aatattttatc 180
ctaattgtgt cagaagcaaa tttctgttcc attctacctc ccaattctgc tccaccttca 240
gtcttacctc gttcgattaa agacaactct attcttccac ttgcccagac caaaaacctc 300
gag 303
```

<210> 190

<211> 209

<212> DNA

<213> Homo sapiens

<400> 190

```
gaattcggcc aaagaggcct atgagaatcc acgcgagacg gagccctctc cgccggccgg 60
cctggacgct tgggatcttg ttctgttctc ggggatgtat cgtcagctct gtatggagtt 120
cttctaattg agcttctctc tctctacctc ctctctcgcc ggggtctcac tctcagcacg 180
agcaccattt ccatggcaac aactcgag 209
```

<210> 191

<211> 195

<212> DNA

<213> Homo sapiens

<400> 191

```

gaattcggcc aaagaggcct agtgagttgt tataaaacaa tgctgcctct tctattttgc 60
gctttttgtt tgcacaaaact cggteccctt ctgtttctct acgatgtttt gatgcagcat 120
gaggcagtc tgaagaacca ccagatacag ctgcctgata ctgaatttcc cagccaacag 180
aaccaaatgc tcgag                                     195

```

<210> 192

<211> 215

<212> DNA

<213> Homo sapiens

<400> 192

```

gaattcggcc aaagaggcct agaaagccct gaccctagat tggttgaatc tgaatctgca 60
ttttaacaag atctctagga acaaatatgc acaataaagt tttagggtgca tggctctgtg 120
ccatgctgcc tgtttctgac acaaatgaaa gaaaatcagc tattgaagga agcaggtctc 180
tagatctgac agtccatgtg tctttctccc tcgag                                     215

```

<210> 193

<211> 275

<212> DNA

<213> Homo sapiens

<400> 193

```

gaattcggcc aaagaggcct agtctcgaac tcttgagttc aagagatccc cccacacctca 60
gcctcccaag tagctgggac tacatgccct tgccctctgt ttgttttcca ttattttctc 120
acatgtcagg cttcattata tgtttcacag tctttattat tatttacctt cctcagctag 180
aatgtgagtc cacaaggata ggtctgaact cttttactca cagcatttct gacccccaaa 240
tatgtgtctt ttgtcctcat accaaccaac tcgag                                     275

```

<210> 194

<211> 282

<212> DNA

<213> Homo sapiens

<400> 194

```

gaattcggcc aaagaggcct acgtcgattg aattctagac ctgcctccag gacctcccc 60
cttttttaaa aataaatcgc tgacaagtgt gaatcccgty aagactttat ttgtgttgt 120
gtgtatcctg tacagcaagg ttggtccttc gtaacaacgg atgaaatggt tccctttttt 180
aaagcgccct ctctccctcc accctcagcg cccctgtcct tggcatgttt tgtatcagcg 240
atcattctga actgtacata ttatgtagc gagaggctcg ag                                     282

```

<210> 195

<211> 132

<212> DNA

<213> Homo sapiens

<400> 195

```

gaattcggcc aaagaggcct agcttgccca ttttgcttgc caatgttcca tctttcgggt 60
tctgatttaa tgcctgtcga tatgtacta tggcttcttc aggcctctaga atattcatgt 120
atgcatctcg ag                                     132

```

<210> 196

<211> 224

<212> DNA

<213> Homo sapiens

<400> 196

```

gaattcggcc aaagaggcct agccgtgaga cgtttcggga gccggagtct ctccaccgca 60
gacatgacga agggccttgt ttttaggaatc tattccaaag aaaaagaaga tgatgtgccca 120
cagtttcacaa gtgcaggaga gaattttgat aaattgttag ctggaaagct gagagagact 180
ttgaacatat ctggaccacc tctgaaggca gggtaggact cgag 224

```

<210> 197
 <211> 169
 <212> DNA
 <213> Homo sapiens

```

<400> 197
gaattcggcc aagaggccta agtgaacctt agtaactact gtcagtcaca ttactcctt 60
agcacttttg agtaaaactgt ggtttgatct tattttgaca gggttaacaa acttggaact 120
acacacacat acataaacac tcatgcaaat caacttaaaa atactcgag 169

```

<210> 198
 <211> 209
 <212> DNA
 <213> Homo sapiens

```

<400> 198
gaattcggcc aaagaggcct actcaaaaaga aggaggaaaa acaaggctct gaaagtgtct 60
atatttcatt agggagggttg agaaaaaagg gacaaaaaag tgactgagaa gtaataatta 120
acaatcagaa agacactaga gttcatcttg ggagccacgg agggacaagt ttcaaaactg 180
agaagatgaa gactgcagca gttctcgag 209

```

<210> 199
 <211> 306
 <212> DNA
 <213> Homo sapiens

```

<400> 199
gaattcggcc aaagaggcct accgtctcaa aaaataaata aataaatagt ctattgccta 60
agaataaatat cctattcctc atttctcttc tttacacatt acacacccca ctaactgtgt 120
gttctagatt caccgatctt tgtacctatg catatgctgt tctctctgtc tgaaatgtct 180
ttcctcttcc cctcatcttg tcagattcca aaagtccttc tgactgggct cagatgtgat 240
tcttcccgga gacctttctc caatcttccc caagttgcag tcatctcttc acactgggaa 300
ctcgag 306

```

<210> 200
 <211> 176
 <212> DNA
 <213> Homo sapiens

```

<400> 200
gaattcggcc aaagaggcct atcacaagat tccgttatcc tgaaaggcct attatatttt 60
atgcagtctg ctacatgatg gtatccttaa tttcttctat tggatttttg cttgaagatc 120
gagtagcctg caatgcatec atccctgcac aatataaggc ttccacagat ctcgag 176

```

<210> 201
 <211> 198
 <212> DNA
 <213> Homo sapiens

```

<400> 201
gaattcggca aagaggccta atcttttctt agcactgtct tctcatatcat atcaggggtgc 60
aaatatctct ctgtgccata cagagaaaca aactgtctcat catcttctaa ttctctagct 120
gcacccaaat ctgtgagttt gtacacagac tgtccatctt cccctataac acgcatgata 180
tttctggct tgctcgag 198

```

<210> 202
<211> 471
<212> DNA
<213> Homo sapiens

<400> 202
gaattcggcc aaagaggcct agtttagata tatacttagt tcaagccaaa ttagtctggg 60
attagtaagg tttttgttaa cctaactttc gaattactgt ggcttttaaa ctaatctttg 120
actttttccc caaaaatctta ttgcattcag agtttctcat tttagattag cttgcatagt 180
aataaattat agaagtgaag gttgcactta ataagcctgt gcttattttt ccatttgagg 240
tgcataatc acataagggtg gtattagtgc tcttttggtt tgaagctagt ggccatgttg 300
tatctgtctc tagtgggttc aagcctagca tcttttggtt ttgttttggt ttgttttggt 360
gagacaagtt ctgcgtctgt tgcctgggct ggagtgcatt ggcacggtca taactcactg 420
cagctcctaaa ctcttggaac caagatatcc taccacctca gctcctctga g 471

<210> 203
<211> 261
<212> DNA
<213> Homo sapiens

<400> 203
gaattcggcc aaagaggcct atactggctg aaatcctgtc tcaaaaggaa gtgagtcattg 60
aagaccagac catgttttta tttttatttt ttattttatt attattattt ttgagatgg 120
agtcttgctg tgtcaccag gttggagtgc ggtggcccg tctctgtctc ctgcaggctc 180
cacctcccgg gttcacgcca ttctctgccc tcagcctccc aagcagttgg gactgcaggt 240
gccaccacc acacgctcga g 261

<210> 204
<211> 211
<212> DNA
<213> Homo sapiens

<400> 204
gaattcggcc aaagaggcct agttttgcta agattgcatt ggttatgaaa aactgcagga 60
acatttagaa gtgagattaag agaaaatgag aaatgggatt tttctttttc taatctcttt 120
ttttttggag acacactctt gctctgtcac ccaggcagga gtgcagtggc actgtctagg 180
cccactgcaa cctccacctc ccaggtctga g 211

<210> 205
<211> 223
<212> DNA
<213> Homo sapiens

<400> 205
gaattcggcc aaagaggcct atgtattttt catgatgtta ccttccttgg tgttttcttt 60
gcacggatcc acacacgttt tttacttaga acttgcattt tcacctgctt ggacaggagc 120
ctgcttgagg cacagtcatt ctttgagcac tgtcacccca ttcttcaggg tcccagccat 180
gcttgcccat cacctgatcc cccgtagccc cggaagtctc gag 223

<210> 206
<211> 231
<212> DNA
<213> Homo sapiens

<400> 206
gaattcggcc aaagaggcct aacctgggct gccctacaca tgccttctct gctctatctg 60
cattttggct accacaaagt ggtagagggg atcctggaca cactggaggg ccccaacatc 120
ccgcccctcc agagggtccc cagagacatc cctgccatgc tccctgctgc tcggcttccc 180
accacgtccc tcaacgccac agccaaagct gttgcgggtga ccccgctcga g 231

<210> 207
<211> 227
<212> DNA
<213> Homo sapiens

<400> 207
gaattcggcc aaagaggcct atacagagat actctagccc actcttgcaa caatattacc 60
aaggtgcatt tccagtaatg ccagttaaga gttcttatgg agacgttacc caacatataa 120
cagttgatta tagcatttgg aaaatatgcc tgagggaaaa aataatttat ttatcgtcac 180
tattattatt ttgccttttc taccatctgc tacaggccag actcgag 227

<210> 208
<211> 211
<212> DNA
<213> Homo sapiens

<400> 208
gaattcggcc aaagaggcct agtttgattt ttttgtaaat aagggaacct ctcaaagata 60
cttttaaatg aaaagacaaa gggtcagaaa atactggttt tttttttttt ggacagtctc 120
attctgtgac ccagactgga gtgcaatggc gttgatcttg gtcacagtg acctccgctt 180
cctgggtcca agtcatgccc cctatctcga g 211

<210> 209
<211> 152
<212> DNA
<213> Homo sapiens

<400> 209
gaattcggcg ccggtcgacc acgtacgtta ccataccaca gatttatattt gtaaatacag 60
agaacaatta cactaacatt ctgtttaata taattgttct tctttgcaat atttttgtat 120
tttacattat gcatttaaaa agttatctcg ag 152

<210> 210
<211> 249
<212> DNA
<213> Homo sapiens

<400> 210
gaattcggca aagaggccta gccc aaatca atgtggttct tttggaacat tttcagcaaa 60
ggaacgcata tgctgcagtg tctttgtggc aagagtctta agaaaaacaa gaaccctaact 120
ggtaagcgaa acatgcatac ttttatgttt ttccctcataa taacctgtct gttgctcacc 180
gagctagatc tgcagttctg ctatgcagga aggcagggga aacataccag gaaccaggac 240
aaactcgag 249

<210> 211
<211> 217
<212> DNA
<213> Homo sapiens

<400> 211
gaattcggcc aaagaggcct actcgacaac tgcactgtaa gaatttcttc tgtgtatttt 60
ctaattctgt gacaacaggc atcaacaaaa catgtggcct gttatcacat ggttctctcc 120
tgtgtgcacc ttcatagaga ttttttccct ttctaaaaga atgaggattc ctctgaatgt 180
tacactatgc aacaataatg tccccaatcc actcgag 217

<210> 212
<211> 191
<212> DNA
<213> Homo sapiens

<400> 212
 gaattcggcc aaagaggcct agtcgattga attctagacc tgcccgagct tccgtgttta 60
 agtacactat tagtaggaga atgggtatcca taaagttgaa gacgcagcat tgcacgcttt 120
 tcttcattctc ctttaatttc tctcttttca ttttttttcc tgaatatctc ttgaagcacc 180
 aaaaactcga g 191

<210> 213
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 213
 gaattcggcc aaagaggcct aagcaaaaca cagaaagata aataataact taggtcaaac 60
 ctttccttct cattgggtcc atttgccctgt tataaattat tagttaagtc caaagtattt 120
 tgtataatca attctgtata ataccagaat tcacettata aattatagtg atttttaaac 180
 atttattctg gactccccat aagttttgag atataaaaaat acactgaaat tagaacataa 240
 ataacatgaa ttttagtaaca ctcatgctcg ag 272

<210> 214
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 214
 gaattcggcc aaagaggcct aattaaagct tataactttga aaattaggca agtcttttgt 60
 tttgggtgtca gtatttcttg tcattcttga tttttttgtg aaagattgga gagcaaaagt 120
 ggtatgaaca gttgtcaatt ctgtaccata gtaagcactg tgatgctatt tcattttgtt 180
 tttacaagtg aaacaggagg actcgag 207

<210> 215
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 215
 gaattcggcc aaagaggcct agcagagtca agttatacag tctaataact agaaatttct 60
 aggtacttct cgcagagaat gaaagtggga aggagttttc taacactggg gctttctttc 120
 ccttgctttt acaaaaagaca aagcctagge agtcagtcag tagcactaga gtattcetta 180
 tgggcattaa gaatttctcc tgtttcctgc ctcaatcccc ctccctcga g 231

<210> 216
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 216
 gaattcggcc aaagaggcct aattgaattc tagacctgcc tactattttt gtgaagaatg 60
 gtattgatta ttgctaatat tcttttttac attcgccatc ttgggtgggtt agagaatatt 120
 ctgtgtccat gctaccatct accctccacc ccactcgag 159

<210> 217
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 217
 gaattcggcc aaagaggcct acttagttca ttccgatttt tcaagttact atacttatgt 60
 aaaaaattac ccccaatttt agtgactttt acagaatcaa aaaatactta tatgcttatg 120
 aatctgcagt ttaggcaggg cttgggtgggc ctagctcacc tttgctttct gtgggggtcac 180
 ctgggctgct tgatagtggg agcggacaac ctcgag 216

<210> 218
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 218
 gaatttcggcc aaagaggcct aatttggtcc aatctggccc ttttttttc ttccttcatt 60
 ttctctcccc ctcttggtct ctctttttca aaaatgtttt ataattcctg gaatcaaaac 120
 cacttcaggc acacactgtt ttattttact gtattattgg attataccgc ctataaatca 180
 ctggatgtta ctcattggcc accgacactc gag 213

<210> 219
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 219
 gaatttcggcc aaagaggcct agattgaaat ggtttgccat ctgcttcgta tgtggcggtt 60
 tcttttctat tcttggaact ggattgctgt ggcttcggg cggcataaaag ctttttgtag 120
 tgttttatac cctcggcaat cttgctgcgt tagccagtac atgcttttta atgggacctg 180
 tgaagcaact ctcgag 196

<210> 220
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 220
 gaatttcggcc aaagaggcct aggggtttcgt agggatttca tacaatacta actccttagg 60
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 agtagcctgc ttctctcgca ggcgcttctg tttggcttca cggttcctcc gggagatggg 180
 agatccatgg ggcctccgact gtgtagaaac ggagtgaac ctggggaggc cccgtgagtg 240
 cctcagcccc caaaatggtg gtcgaaaaga agcgagaggc aaatgaggca tcaggagtgt 300
 ttggaaaggg gccgagatct gtccaggagg ccccgccgct atcccagggc gccccggcgg 360
 ggcagggact gaggaatcca ccaaacccga ccctggaacg tgcctaaacc gtcgattgaa 420
 ttctagacct gcctcgag 438

<210> 221
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 221
 gaatttcggcc aaagaggcct agggcaataa aatgctcctc ctcttaaagg ctgttaaacac 60
 aaatcaaaga aactccctct cttttctttc tataatatgt ttttccttat tgtaatttc 120
 tgcattgtgtt agcaggagtt tagggactgt gggcagcaga agaattaggg cgagggcagg 180
 ggggtccactc gag 193

<210> 222
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 222
 gaatttcggcc aaagaggcct aatttaacgt cggtagttct gctttattaa aatgcagcag 60
 aggtactctt ctgtcccttc cgtttatagt tctctgagag agttctatct tttggttttg 120
 ttttgtgttt tcttttgcct tttgtatctt gtatttatcc ctgatctcga g 171

<210> 223
 <211> 254
 <212> DNA

<213> Homo sapiens

<400> 223

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gaattcggcc aaagaggcct aatctgctcc caagacatca cagctagcaa ccactctacc 60
ttccccaggt aattaaggct ttagagaagt aaaagtcagt tcctcaaaat ctattagatt 120
gggttagaaa atcctatatt ggacaatctc tattagatga ctaatattat taatctattt 180
tagaaaaccc tatcttttac aaactctgaa gtatttttca actacaaaat tccatcatga 240
agattttact cgag                                     254
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<210> 224

<211> 249

<212> DNA

<213> Homo sapiens

<400> 224

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gaattcggcc aaagaggcct agaactgcat ctagactaca cggattttac ccaaaaagac 60
agcacttgca cttaggctaa gtgtctttct ccatcgtaac caattttattg aatcaacttta 120
agagtgatca ttggggaaat tttcctctcc agccttattt tggccttttg aaacagcaac 180
aaagactgcc tagtcaaata actccttagc tgattttacc ctcaaatgag ttttcgtact 240
ttcctcgag                                     249
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<210> 225

<211> 269

<212> DNA

<213> Homo sapiens

<400> 225

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gaattcggcc aaagaggcct agcaggataa agcttaaaca catctcttgt ccattcaaga 60
ccctggggca tctgtttttg ccagcagctc ctcacagggt ccattccatc aaagctgggt 120
cagttattta cctgttccca gagggcatgt tttgcctgtt gtcacttggg atgcttctct 180
tatgcaataa tattttgtat gaagggttct cccaggcact gtgcttggaa tcttacacca 240
tatttaatct tcacagcacc agactcgag                                     269
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<210> 226

<211> 211

<212> DNA

<213> Homo sapiens

<400> 226

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gaattcggcc aaagaggcct agtctagatt tctttcaaac aaaaattaaa gagcaagaat 60
cattactgta taaatttttc ccagaggaga aaatttaatt ttctcttata ttccaggat 120
tatgcgttgt tcatatatat atatattttt ttctacattt atttttcttt ctttttttaa 180
cttttgtttt aggtttgggt gtactctega g                                     211
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<210> 227

<211> 215

<212> DNA

<213> Homo sapiens

<400> 227

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gaattcggcc aaagaggcct acatgttttt tcatgttttt cttttctctt acctgcaaca 60
tcttccacat tcttcttctc cagggtoacc cctatgcatt cattgtctct actgccatct 120
ccttcaagac aacttgctcc tggaaaccaa atcacccttc tctctgctcc cacaggaccc 180
tgtgcacatt tatatccgag tactcaggct tcgag                                     215
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<210> 228

<211> 237

<212> DNA

<213> Homo sapiens

<400> 228
gaattcggcc aaagaggcct agccagttag aaaggagctt accaaaggca gtgtacgaag 60
aagggttctg ggagactgtc agaaatgagt ttttactga acttcacctt gccggcgaac 120
acaagcaacc aaccattttg ctttgcttgg tgttgctgt ttttagcact gaaagtcctg 180
ggcagctctc tggacaatgc ggatgacgtc ctctcctgtc acaggtggga tctcgag 237

<210> 229
<211> 101
<212> DNA
<213> Homo sapiens

<400> 229
gaattcggcc aaagaggcct agtttctgtg cagggataat gttatctgtc ttaggaggca 60
atgggggtcaa tctgggttact tgggtgaccc cactgctcga g 101

<210> 230
<211> 235
<212> DNA
<213> Homo sapiens

<400> 230
gaattcggcc aaagaggcct actaaaattc ttatagtctt aataataaag agttagcttt 60
attatattga gtttaaggga gaggaatctt ttaaaattct gagggtgag agaaatata 120
atgaattttt ttttttacac aaatgagttt tcattgggtc tgtttctttt tattttctct 180
gtgtagggtg aattgttctc tattgctgca gaacaaatta ccacataaac tcgag 235

<210> 231
<211> 344
<212> DNA
<213> Homo sapiens

<400> 231
gaattcggcc aaagaggcct aatattgtag tcagggttgc actgagtctt cttccaatcc 60
ttcagcctgg acaacagagt gaggtccctt tgtggccaga ggccagccct ccttgccctg 120
cttcccttga cctctctttt ccatccatga agccctcagg ccttgccat tttttacca 180
cagaaaactc atggcttctc cagaagcctg agtatctctc tttcccagca caaatggcag 240
catctctatc ctgcccctac tgggcccact cagcttctct tagacaccca agacagatgg 300
acagtgttgg aggggaatcag gctttgagga tccagagtct cgag 344

<210> 232
<211> 323
<212> DNA
<213> Homo sapiens

<400> 232
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agtgttgagg atttttacat ctgcttatga gaaatacttt attggtctat aatttcttcc 120
agtatctttg taattttttt ttaagagatg ggggtcttgc ttgttgccca ggctggagta 180
caatgtgcaa tcataggtct ctgcagcctt gtattcctgg actcaagcaa tcttctgtcc 240
tcagcctctt gggtagctgg gactacaggt atataccacc atgccagct tctttgtgtg 300
gttttagtga cagagatctc gag 323

<210> 233
<211> 478
<212> DNA
<213> Homo sapiens

<400> 233
gaattcggcc aaagaggcct accctgated ccttctcaga acagcacagt gtccccacca 60
agtgtctaata aatgttgttg gataacagaa caatttggtt taaatctctt ctcacagagc 120

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agaatcgcc ttgagggattt tgccttgaaa attaaattct gatatcaatt tctaaaatta 180
tttacaatat taaagttgaa atgaatccat cacacagttt ccttccaatg ttagtctttc 240
aagtgaacct actttccctat tagcagtcac ctaaaaacaa ataagcaaac aaacaggtaa 300
ctcagctcttc cctctgactc agtgtgagga aagggacagg cagcatcttg tgacagctta 360
cttcagtggtg tctccatggt tcttcaccaa aaccacttgt gtttccctct caagcaccac 420
agtatccctat gacactaggc cagtgggctc tcaaaactttt ggaattcagg aactcgag 478

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<210> 234

<211> 119

<212> DNA

<213> Homo sapiens

<400> 234

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gaattcggcc aaagaggcct atctagacct gggtaagtta cagaggcaaa taaaaccagc 60
aattataaca aaatatatga agtatgatgg tagagatata tattatacgg gctctcgag 119

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<210> 235

<211> 253

<212> DNA

<213> Homo sapiens

<400> 235

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gaattcgcca aagaggccta gaggaatctt gtcttttgta catgtttgtt tgtgacatat 60
tagatctggt tgattcctct gttttagttt tgaaatgtgc atgttatccc agctttccat 120
tatttggttg tcttttaagt gtgctcttga tatgttgac ttatggagag gtcacacctt 180
gccagctcgg cttaccttac ctatacttgc caacctaggg gtctgtctact gtcaaacaca 240
gcataactc gag 253

```

<210> 236

<211> 244

<212> DNA

<213> Homo sapiens

<400> 236

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gaattcggcc aaagaggcct aaaggaatgc tttcacaata gtgtatcagt tcttttggtt 60
tgtaaagttt ggaatttatt ctgttgccag catttaagta gtcatggcaa gtctgtttt 120
taagaccttt tggagactgg agctttctgt tccattaagt cttttgttta tactacaaat 180
tgtcaacctc cttagttcag atgaaatctg ttactctaca aggaagggtg tcatcaatct 240
cgag 244

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<210> 237

<211> 171

<212> DNA

<213> Homo sapiens

<400> 237

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gaattcggcc aaagaggcct actttgggat tggatgatac agcttttgc tctgtgtagt 60
atacctgtac atacttggtt caggcagcct ttctttaatg ttttcagttg gtttgatatc 120
tgtagctcag tagctgctaa taaagttaaa gatcctgtgt ccagctctga g 171

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<210> 238

<211> 200

<212> DNA

<213> Homo sapiens

<400> 238

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gaattcggcc aaagaggcct ataccagtgc attaatttgg gcaaggaaa tgtcataatt 60
tgatactgta tctgttttcc ttcaaagtat agagcttttg gggaaggaaa gtattgaact 120
gggggttggt ctggcctact gggctgacat taactacaat tatgggaaat gcaaaagtgt 180
tttgatgatg gctcctcgag 200

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<210> 239
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 239
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 atgtcttatg aaaagctgct tttgccctt cctgtttta tctagtcttc attttggtct 120
 ggtgtctgag ccagctcca gagtcagcc ccgcctccca cctcgaaggg agggacaagt 180
 tctgtctggc ctctttgata agggcactaa tctattcat gaggatggag ccctcgag 238

<210> 240
 <211> 250
 <212> DNA
 <213> Homo sapiens

<400> 240
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 agattatgat aagtgtctgt gattaaaata aagcagggaa agagaatagg aaattctagg 120
 ctaggttgag gggttgtaat ttaaaataac atagtcagag aagtcatgaa ggaaaaatac 180
 ctgagacagg ttgttttgca cagatttatg gaaaaagtgt ccagggcaga aggaatgcaa 240
 ggctctcgag 250

<210> 241
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 241
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 ccaccttagg caatctctgt gtaaagttag tttactagat tatttagtga ctgtactgta 120
 gctgaaatag aacgcaatgt tgccaaatag aaaaataact ttactgggac tgaagataat 180
 tttttttttg agggcggatc tcgtctctgc gccaaacctc gag 223

<210> 242
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 242
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 atgcttggtg atatttttagc gggcttattt ttgaaaggca tctgttactt cagtggcata 120
 aagtgccttc acactgctgt gcagccatca ccaccattca tctccagaat ttgttctcag 180
 tcccaaatc aaactatacc attcaaacaa cagcgctccc catttccca tccctcag 240

<210> 243
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 243
 gaattcggcc aaagaggcct agtctgggac tttcaaatct tcagaagagc caaatccagg 60
 ggaagttagc ggcttgcaat cttcaggtaa agaagcagct ttgaatctga gcttcatac 120
 gaaagaagag atgaaaaata ccagttggat tagaagaac tggcttcttg tagctgggat 180
 atctttcata ggtgtccatc ttggaacata ctttttgag aggtctgcaa agcagctctg 240
 aaaatttcag tctcaagca aactcgag 268

<210> 244
 <211> 190
 <212> DNA

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tgtgtctggc agcctcggt ctcgggagat caactacatc ctctgtgtcc ttgggccagc 180
cgcatgccgc aatccagaca tattcacaga agtggccaac tgctgtatcc gcctcgccct 240
tcctgccctc cgag                                     254

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<210> 470
<211> 181
<212> DNA
<213> Homo sapiens

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<400> 470
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ccgagaccta ctaagagcca ctgtgtttcc tgagactgta ccctcccttg cactagagac 120
ttcaggaaact acttctgagc tagaaggcgc tgccctcgag ccattacccc cagtccctga 180
g                                                    181

```

```

<210> 471
<211> 242
<212> DNA
<213> Homo sapiens

```

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<400> 471
gaattcgcg cgcgctcgac gaatccatt caggtaatct tctgttggct ggctgtagaa 60
ctaccgagaa catctggaga aacatgtcaa ggggtgtgtg gaaatcggtg agcctactcg 120
atcttctgct gctgttgcgc ggttttcaact tggcactgtc ctttaaaactc ctctgtgtgc 180
gtgactctgc agtgtctggc agcgtagtag actctactcc ctctatggac gtgatectcg 240
ag                                                    242

```

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<210> 472
<211> 219
<212> DNA
<213> Homo sapiens

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<400> 472
gaattcgcg cgcgctcgac gagcaccctg cgtactggg actgggtgat cgcatacaac 60
gtttttgtga ttacgatgaa aaatatactg tcaataggag catgtggata cattggaaca 120
ttggtgcaca atagtgttg gttgatccag gctttcagcc tggcctgcac agtcaaaggc 180
tatcaaagtc ctgctgctaa ttcaccctgt aactcgag                                     219

```

```

<210> 473
<211> 220
<212> DNA
<213> Homo sapiens

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<400> 473
gaattcgcg cgcgctcgac agaacatcga ccgcttcac cccatcacca agctcaagta 60
ttactttgct gtggacacca tgtatgtggg cagaaagctg ggctgtgtgt tcttccccta 120
cctacaccag gactgggaag tgcagtacca acaggacacc ccggtggccc ccgctttga 180
cgtcaatgac ccggacctct acattccagc aatactcgag                                     220

```

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<210> 474
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<400> 474
gaattcgcg cgcgctcgac caccgaactgc tttctgtaac tgcactgtgg ataaatgttc 60
cgagagtctc cattgttgta caggatcttc agttattoga ggggaatgag gcaggtaaac 120
ccgatgctag ccaactagttt gatttttttt ctgtttttata gtttgcgctg catggtactt 180
gtgaagctta aatattttga gtgttctact ggactcgag                                     219

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<210> 475
 <211> 144
 <212> DNA
 <213> Homo sapiens

<400> 475
 gaattcgcg cgcgctcgac aaaaaaccct attttcacat acagtcacat tgggatttgg 60
 agcttcaaca tatgaatttt cagggttata attcagtcga aagtacttaa tatgattctt 120
 ttccggtttcc acatagtact cgag 144

<210> 476
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 476
 gaattcgcg cgcgctcgac aaagggttagt gcctttaaaa ctaacctgtg ttagagttac 60
 atgaatctgg ctctaaagta tctattttgc atccatttat atatagatct taaacagaaa 120
 tactctaggt tgccacacca cagttttaag aagttatgct gctgctgtta ctcgag 176

<210> 477
 <211> 155
 <212> DNA
 <213> Homo sapiens

<400> 477
 gaattcgcg cgcgctcgac agaagctcaa gaagcacact ggagggttacc ttgaggcggt 60
 tgtgtaatct gcatactagt ggagtagcca tggtagccgt agccacatgg gtgttctgtt 120
 gctgttttgc aggttcaaac cttgtactac tgcgag 155

<210> 478
 <211> 122
 <212> DNA
 <213> Homo sapiens

<400> 478
 gaattcgcg cgcgctcgac atggagttgg tcttagccgc tgcaggagcc cttcttttct 60
 gtggattcat catctatgac acacactcac tgatgcataa actgtcacct gaagctctcg 120
 ag 122

<210> 479
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 479
 gaattcgcg cgcgctcgac ccttgaacgc acctcaggat ggcccgtact ttggaaccac 60
 tagcaaaagaa gatcttttaa ggagttttgg tagccgaact ttaggcggtt tttggagcat 120
 attttttgtt tagcaagatg cacacaagcc acctcgag 158

<210> 480
 <211> 109
 <212> DNA
 <213> Homo sapiens

<400> 480
 gaattcgcg cgcgctcgac cggatcaagg tctttcattt cttgttcgct tactttcgtg 60
 aaatcctcac atcgtttttaa tggtagtagt caagacaagt ttactcgag 109

<210> 481

<211> 182
<212> DNA
<213> Homo sapiens

<400> 481
gaattcgcgg ccgcgtcgac ctacatgcta ttatagctgg attttttgca ggtatatcaa 60
tgatgtttta taaaagcaca acaatttcca tgtatttagc gtccaaattg gtagagacaa 120
tgtatttcaa aggcattgaa gcagggaagg ttccctattt tctcatgca gataacctcg 180
ag 182

<210> 482
<211> 144
<212> DNA
<213> Homo sapiens

<400> 482
gaattcgcgg ccgcgtcgac ataaatcttt ctttttaata taaattggag gaaactaatg 60
aataaatcaa aggttcgagc tgtacatgca gttactgtga ttttagtggt tgtaataaaa 120
tgctgtgaag cacacactct cgag 144

<210> 483
<211> 194
<212> DNA
<213> Homo sapiens

<400> 483
gaattcgcgg ccgcgtcgac ccaattttaa gtccacactt cggactcatt agaaatttat 60
tttttgaaat gtacagccta atttattcta tgattttaat gtcttttctt ttaattcttt 120
cctctcagta tacttactct ttgacctcaa gaagcctcca attccttaac caaccttttc 180
ccccccct cgag 194

<210> 484
<211> 194
<212> DNA
<213> Homo sapiens

<400> 484
gaattcgcgg ccgcgtcgac gtgggatata tcttttctgt tctatatttg gtagacaatc 60
ttcttaaccg catgaagtcc cgggcgaagt tgtctctccc attgtgggtc ggactcttca 120
tggcctggac cctctggatg aatttctca ggatctccac ttgtctcatt ctcccgctc 180
cccccaact cgag 194

<210> 485
<211> 228
<212> DNA
<213> Homo sapiens

<400> 485
gaattcgcgg ccgcgtcgac gaggaactat ttaagttttt cagagattga aattatttgt 60
tttaaaaaga tcacattttt gtataaaaaa atcttgagag actaggaagc tatttgcaat 120
agttcatgta tgaaatttga atgcacaaaa ctaatttcct tagcattcac ttttttattt 180
atttttcttt attttttaat ttctgtgaag ttactgggtt atctcgag 228

<210> 486
<211> 121
<212> DNA
<213> Homo sapiens

<400> 486
gaattcgcgg ccgcgtcgac tttcttaatt cagttgagtt tttttttttt ccaagtgttc 60

atcttgatcc actaaattta ttgcatgacc tatgaaatgg atcataaccc aaattctcga 120
g 121

<210> 487
<211> 217
<212> DNA
<213> Homo sapiens

<400> 487
gaattcgcgg ccgcgtcgac agacttaaag ttagagctgc gacgactacg agataaacat 60
ctcaaagaga ttccaggacct gcagagtcgc cagaagcatg aaattgaatc tttgtatacc 120
aaactgggca aggtgcccc ttctgtttatt attccccag ctgctccctt ttcagggaga 180
agacgacgac ccactaaaag caaaggcagc actcgag 217

<210> 488
<211> 204
<212> DNA
<213> Homo sapiens

<400> 488
gaattcgcgg ccgcgtcgac ctttgacata tttattactg caagtagaat ctactaatg 60
acctattcct gtatggcctt atccaaatcg aaatcacaag aacagaagaa taatgaaaaa 120
acagacaaga gtccattaaa tctcccagaa gttgattcag atgttgctaa gcccaaccag 180
gcatgtatct ccacgggact cgag 204

<210> 489
<211> 288
<212> DNA
<213> Homo sapiens

<400> 489
gaattcgcgg ccgcgtcgac aggattaata aatcttttgg catggtcgat ttgtaataaa 60
ttactgaaaa tgtgggatta caatgaaact cttaaagtgt gccacataag tcaagggaagc 120
cacctaagtc atgggatggg catgagttag acactctgga ataattctga tgctactctg 180
ggactgccct tgcagggttg gacatcagct tctaagggg gctcaccaga gactccttca 240
agggagcatt tcttggtttc catattgtgt ttatgtcatt tactcgag 288

<210> 490
<211> 266
<212> DNA
<213> Homo sapiens

<400> 490
gaattcgcgg ccgcgtcgac ggggagcacc cagtctttaa gagccaagtg ggggcccctt 60
ttccgaagcc acttccaggc caaggcagtc gccagggtct cttgtcccca cttctgaac 120
cttcttcaaa cagttagtaca agtccccctc agccagcctg cctgcccagc gaggcccca 180
ggttcaaggt gttggcgggg gcggagggca ggggaacggg atccttctcc cgctgcccac 240
caacaccaac actcacacac ctcgag 266

<210> 491
<211> 166
<212> DNA
<213> Homo sapiens

<400> 491
gaattcgcgg ccgcgtcgac atccctcttt ggatctctgt ctccccaca gcatggctca 60
gtcatttacc attaacacat tagctctcag aagtttctg ctatttctcc accttttttt 120
ctttgtgtgc agtgagggaag gctgttctga attgcatgat ctcgag 166

<210> 492

<211> 246
 <212> DNA
 <213> Homo sapiens

<400> 492
 gaattcgcg cgcgctcgac ctcattaggca aacatagaac atagattgta aacattttgc 60
 tatattttgtg tcattgattat tttttgcttg tgtttgaaaa tatattaaag aaaattatat 120
 tttaccctta aattcttttag tacagatttc taaaaataa gaacattttc ctgtatagtt 180
 acaaaatcac cttttcaaac aaaataaaaa atgtttttta tatcatttat taccagtc 240
 ctcgag 246

<210> 493
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 493
 gaattcgcg cgcgctcgac acaataatg ctactaggta gtgactaaat atagcaaaca 60
 cttcatcaga tattagaatt aggtcacact attgagggtta taatctgaag gttgtgttac 120
 atagaaacca ctttagatta ttatcaactt ggactaggct ttattttata atagcatagt 180
 aagtaatatc tattgtgtca tttcttcaac cattttatc taagatccat gaggtactc 240
 gag 243

<210> 494
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 494
 gaattcgcg cgcgctcgac tacacattag tgcattgcgt atatcaactg gccctcaatg 60
 aagcatttaa gtgcttgga ttttactaaa ctgacttttt tgcaactttg ggagattttt 120
 gaggggagtg ttgaaaattg ccaaactc acctcttact caaaacttca aataaaatc 180
 acattttcaa gagagagcac cctcgag 207

<210> 495
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 495
 gaattcgcg cgcgctcgac agctattata taaatatata ttctgggttat agttctaata 60
 tggagatgtt gtgtgcaatg ctggcctgtg gtggctctgt taatgcttta acttgatgg 120
 aggaggccag gctcagagct gagatgtggc ctgaaccttc cctgtatcga tcttttaatt 180
 tagaactgtc aagatgtctc gag 203

<210> 496
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 496
 gaattcgcg cgcgctcgac taattttttc taagtaagat acaaaaaatt ttcattctaaa 60
 gtaatatctt acttttatatt gtaaagaagg taggtatatt ggtggctgag gtctcttgaa 120
 attgctaaag ggaaattttt ctatggtaat gctcttacgg ataattctcg ag 172

<210> 497
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 497
gaattcgcgg ccgcgtcgac gaggggaggt acagaaagag gagaggagag aaagagagag 60
agagaggaaa aaaagacagg aaagaaaaga aagaaaagga aagaggaaag gaaagggag 120
ggaaaaggaa aggaagaaaag aatgcaaaga ttgagaaaaa tgtgggcact gctgctcgag 180
<210> 498
<211> 182
<212> DNA
<213> Homo sapiens

<400> 498
gaattcgcgg ccgcgtcgac aatccttgag ccagggtgc catataacct gacaggaaca 60
tgctactgaa gtttatttta ccattgactg ctgacctcaa tctagaacgc tacacaagaa 120
atatttggtt tactcagcag gtgtgcctta acctccctat tcagaaagct ccacatctcg 180
ag 182

<210> 499
<211> 174
<212> DNA
<213> Homo sapiens

<400> 499
gaattcgcgg ccgcgtcgac ggagcaataa cttacagtgc agatgaagct cctccctctc 60
attcttcttt cctccctccc ttccctggta gctccttttc ctccctctct gccttccctc 120
tccttctttc cttattcttt ttatttttgt ttaaatagta ccacagatct cgag 174

<210> 500
<211> 171
<212> DNA
<213> Homo sapiens

<400> 500
gaattcgcgg ccgcgtcgac attttgaagc gtcttttttc ttcttttttt ctttttttgt 60
tttggttttt gttattgata ttaaacagtg taatctttgc aagcgtatat tgaagattat 120
tctggagcat ttattgcctt accagaaatg ttagtaggaa atgtttctcg g 171

<210> 501
<211> 169
<212> DNA
<213> Homo sapiens

<400> 501
gaattcgcgg ccgcgtcgac atccgagaaa gggacgctta taagaatatt tgatacttca 60
tcagggcatt taatccagga actgcgaaga ggatctcaag cagccaatat ttactgcatt 120
aacttcaatc aggatgcggt tgcaattctt gttcccgacc tgcctcgag 169

<210> 502
<211> 332
<212> DNA
<213> Homo sapiens

<400> 502
gaattcgcgg ccgcgtcgac atcagaagag tatccatcac ccgcagcaac cgctcaggga 60
acaccatcaa aaaagaaaaa aagggaatat ctggatttcc tgggcgagga ggagcgagtc 120
tgctcgggag ctgttccagc aggcgatttt taaatactgc ttctacgcc ctatacaact 180
tggtctcaca tacttttaca ctaactttat atgattttta aaaactggtc tgatcggact 240
tctcgtcctg ggacactgtt tactggagtc tggccggctc tccgtgctcc tcttggtacc 300
tcattttggg gagaacctta aaccactcg ag 332

<210> 503
<211> 234

<212> DNA

<213> Homo sapiens

<400> 503

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gaattcgcg cgcgctcgac attcaatttg cattgtaatt cagccactgc caggatgaga 60
tcctacttct gggttttcagc catctcagct ctgcacttat gggacataag ggcagacata 120
gaaacttttg attcattcat gtggtgcttg agctgggaat ttgaatccct gaattcattc 180
ttcttttttc cccacttttg tctagtacaa ttaggagcaa caaccactct cgag      234
```

<210> 504

<211> 147

<212> DNA

<213> Homo sapiens

<400> 504

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gaattcgcg cgcgctcgac aggacttatg atccaattca ccaaagatt aatgaaacc 60
accctgtgtt ttaaaatata tataatgttc aacctaatgt atatgcaaca tttattctat 120
tctaattatt tgacagggaa actcgag      147
```

<210> 505

<211> 311

<212> DNA

<213> Homo sapiens

<400> 505

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gaattcgcg cgcgctcgac gcctcgaatt ggatcggtt ttttttttc ctccaggggag 60
aaggggagaa atgtacttgg aaattaatgt atgtttacat ctctttgcaa attcctgtac 120
atagagatat attttttaag tgtgaatgta acaacatact gtgaattcca tcttggttac 180
aaatgagact ccttcagtca gttatccaaa taaaagcagt tctgaaacta tccctttctt 240
tgttatgggt ggaagggtgg gctccaggcc ttgcagctct gtggcttata aaatgtgcag 300
agggcctcga g      311
```

<210> 506

<211> 207

<212> DNA

<213> Homo sapiens

<400> 506

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gaattcgcg cgcgctcgac gtcacaaatg actttttttt tttcaattaa ggaaaaagct 60
ccatctctac ctttaacatc acccagaccc ccgcccctgc ccgtgccccca cgtgtgtgct 120
aacgacagta tgatgcttac tctgctactc ggaaactatt tttatgtaat taatgtatgc 180
tttcttggtt ataatgcca cctcgag      207
```

<210> 507

<211> 374

<212> DNA

<213> Homo sapiens

<400> 507

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gaattcgcg cgcgctcgac gtactctaaa gttagaatct cctgatcttt cagagatgc 60
tggactggag attggcaagt gcacatttca tcctggctgt gacactgaca ctgtggagct 120
cagggaaaagt cctctcagta gatgtaacaa caacagaggc ctttgattct ggagtcatag 180
atgtgcagtc aacaccaca gtcagggaag agaaatcagc cactgacctg acagcaaac 240
tcttgcttct tgatgaattg gtgtccctag aaaaatgatgt gattgagaca aagaagaaaa 300
ggagtttctc tgggttttggg tctccccctg acagactctc agctggctct gtagatcaca 360
aaggtcgct cgag      374
```

<210> 508

<211> 195

<212> DNA

<213> Homo sapiens

<400> 508

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gaattcgcgg ccgcgtcgac cttggatata caactttcca tctaaaacct actgtctttt 60
ctgtcttttc attgcattac cacttccacc cctgcaaact gattcatcat gatctccagt 120
cccttgatca ctactttctc tctagttttg ggctccctca acctcacttc ctacctgatg 180
gggcctaaac tcgag 195
```

<210> 509

<211> 181

<212> DNA

<213> Homo sapiens

<400> 509

```
gaattcgcgg ccgcgtcgac caaagtcgaag cctccgaagt acctgttgga tagctgtgcc 60
cctctgctcc gatacctgtc ccactcagaa tttaaggatc tgatactgcc caccatacag 120
aagtccttac tgaggagtcc agagaatgtt attgaaacta tttctagtct gcgggctcga 180
g 181
```

<210> 510

<211> 160

<212> DNA

<213> Homo sapiens

<400> 510

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gaattcgcgg ccgcgtcgac taagattaaa gattcttagt gagatcatct tgccaatttg 60
ttgtacatct ctcatctatt gttgggggaa aaaaaagcac aactatacct cttaaatgtt 120
attttcttcc attatccctc tgactcgggt tctccctata 160
```

<210> 511

<211> 214

<212> DNA

<213> Homo sapiens

<400> 511

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gaattcgcgg ccgcgtcgac cgagttatct ttattagcct tttttgaatt gaatatctct 60
ggtattttct aaactagaat tgcacttaat tctaataat aaatttattt attgaattgg 120
taaaaagaga ttggccctct ttctagcttt gtgactgttg tgctctcata aaaagtctac 180
tatatttatg attgttaggc gctatctgct cgag 214
```

<210> 512

<211> 209

<212> DNA

<213> Homo sapiens

<400> 512

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gaattcgcgg ccgcgtcgac ggggggttcta gaacatgtgt gaataagtcc ttgttttatt 60
ctcagcctct atgaggggaa tgaatgcca gagaccagag cccattctg cagctcctcc 120
ctgttttagc tgtgggaaaac tggcctccaa actctgcagt gacaacacaa gatggccgtg 180
aagcaagcct ggcaccagag ggtctcgag 209
```

<210> 513

<211> 143

<212> DNA

<213> Homo sapiens

<400> 513

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gaattcgcgg ccgcgtcgac ctcgagtttc aaaacataat agtatacaaa atataaaata 60
tcttaaatat ttataaaaat cacaagaaaa aaatagaacg tatgaaaata tttttatctg 120
agttctcccc cattattctc gag 143
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<210> 514
 <211> 130
 <212> DNA
 <213> Homo sapiens

<400> 514
 gaattcgcgg ccgcgtcgac gtcattctttt gtcagttaaag ttttgtaact tcttcacaaa 60
 gttctcgtgc ttcttataaa taatgtatctt tacattctac acttctattg ctattataca 120
 ttgcctcgag 130

<210> 515
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 515
 gaattcgcgg ccgcgtcgac gctctgaata gttaaaaatt aaatatattat tttcttcccc 60
 aagcttttagg taaggagaag aggggtcaag agttaaaact agagaccctt tgtctctgag 120
 aagcatcctt ctaagacatt ctgttggagt tccctcagta ctattcctta caactggagt 180
 gggtagaagc cttatgaaaa ttatactgag aacctgctc gag 223

<210> 516
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 516
 gaattcgcgg ccgcgtcgac tttaaaagag tgtaatggaa gatgagaggg attctatttt 60
 ggaccacatg ttgggtgtgga ggagtgtcat tgacagtaag caccaccagg gtgtgtcttg 120
 gagagcattg ggtatcgctc acttctgcag gtacttgctt ttttttctca tggccgaaac 180
 tcgag 185

<210> 517
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 517
 gaattcgcgg ccgcgtcgac gccccagtg tctttcttgc tgcaggtgag tttttgctgt 60
 tcacaaaatgc ttctgtcttg cttctctttgg tgtgttctgc ctcttctcct gagactgctg 120
 ttctctcaag ttcagggtga gtctgatctc ctcgag 156

<210> 518
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 518
 gaattcgcgg ccgcgtcgac ctccccacat tcataaacact tagattttatc aaagtagttt 60
 cgccttcgga tgaactcagc tgctcttcca ttgtcaatag caatgcttgc ttttataact 120
 ctaccaaata actgtttgtt gtttattgac ctgggtacagt tttgtgcaga gtctttatcc 180
 aaaaataaaa taaatgcaac ccctttactc gag 213

<210> 519
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 519
 gaattcgcgg ccgcgtcgac tcgggaagct ataaaaattg taaaaggtct attagtaata 60

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ttacacagga tactttaagg cagccctgca gagtagcatg catctagctc ccagagtttc 120
tttatgcatt aatattgcac atgttctcct taccatgtg ggcaaggcag cccaccagcc 180
cctcataacc ctcgag 196

```

<210> 520

<211> 238

<212> DNA

<213> Homo sapiens

<400> 520

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gaattcgcg cgcgctcgac agatgttccg gccaccccg accacacact gcagtgtctg 60
cgacaactgt gtggaacgat ttgaccatca ctgcccctgg gtgggcaact gtgtggggag 120
acggaaactat cgttcttctt acgcgtttat tctctccctc tcattcctga cggccttcat 180
cttcgectgt gtggtcacc acctgacgtt gcgcgctcag ggaagcaact tctctgag 238

```

<210> 521

<211> 197

<212> DNA

<213> Homo sapiens

<400> 521

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gaattcgcg cgcgctcgac gtgagagctc agagctacag agcctttcag atgaatttga 60
aaacagactc tgtgtgtgtg tgcattgtgt catgtgtggc atatgtgccg tatgtcagta 120
gcttgacagt tttcaaatcg tgcctatatt tttttgcata cacaattttt tgtgttttga 180
aactcagaat cctcgag 197

```

<210> 522

<211> 270

<212> DNA

<213> Homo sapiens

<400> 522

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gaattcgcg cgcgctcgac aaacttcaac acaatgaggt gttgccacat ctgcaaactt 60
cctgggagag taatggggat tcgagtgcct cgattatctt tgggtggcat cctcgtatta 120
ttactggtag ctggtgcttt gactgcctta ctcccagtg ttaaagaaga caagatgctc 180
atgttgcgta gggaaataaa atcccagggc aagtcacca tggactcctt tactctcata 240
atgcagacgt acaacagAAC agatctcgag 270

```

<210> 523

<211> 208

<212> DNA

<213> Homo sapiens

<400> 523

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gaattcgcg cgcgctcgac ctcatcaaat tcatcacttc aatcaaccct attcaaatct 60
tgtgcatact tactcactga tgatgccgct gaacttctgc ctcttttatg ctgttacctc 120
ctcttccct ctccttcacc ttagccctcc tagacctgac atcacttaca gcgggactaa 180
ggtgcaggga acacggccca tgcctcgag 208

```

<210> 524

<211> 230

<212> DNA

<213> Homo sapiens

<400> 524

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gaattcgcg cgcgctcgac attttaagga agctacttga attgctcatt ctgtgacttt 60
atttgtgtcc taaacattct tcagtgaAAA taattttatt tcagtcaaac atttatgagg 120
aaatgagatc acatctttgt cactggatgc tacttgaaga gggagtactt tgtaaccact 180
ttgatatgct gttatcacca cccctgccc tccgcaagggt tctccctata 230

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<210> 525
 <211> 641
 <212> DNA
 <213> Homo sapiens

<400> 525
 gaattcgcgg ccgcgtcgac ctacaagcag ctccctctcc tgcgtgacca agtgacaagg 60
 aagtttcggg atgagccag gcccgccttc ggtctctctc gtggccgaga gttttacatg 120
 aaggatatgt acacctttga ctctcccca gaggtgccc agcagacctc cagcctgggtg 180
 tgtgatgctt actgcagcct gttcaacaag ctagggtctg catttgtaa ggtccaggcc 240
 gatgtgggca ccacggtggg cacagtgtct catgagttcc agtctccagt ggatattgga 300
 gaggaecggc ttgccatctg tcccgcgtgc agcttctcag ccaacatgga gacactagac 360
 ttgtcacaaa tgaactgcc tgccttgcag ggccattga ctaaaaccaa aggcattgag 420
 gtggggcaca cattttacct gggtaccaag tactcatcca ttttcaatgc ccagtttacc 480
 aatgtctgtg gcaaaccaac cctggctgaa atggggtgct atggcctggg tgtgacacgg 540
 atcttggtct ctgccattga agtctctctc acagaagact gtgtccgctg gccagacctc 600
 ctggcccttc accaagcctg cctcatcccc cctaactcga g 641

<210> 526
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 526
 gaattcgcgg ccgcgtcgac ctactttatt ctgataaaac aggtctatgc agctaccagg 60
 acaatggaat ctacgttgac tttagcaacg gaacaacctg ttaagaagaa cactcttaag 120
 aaatataaaa tagcttgcac tgttctctct gctttgctgg tgatcatgtc acttggatta 180
 ggcctggggc ttggactcag gaaactggaa aagcaaggca gctgcaggaa gaagtgcctt 240
 gatgcatcat ttagagaact cgag 264

<210> 527
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 527
 gaattcgcgg ccgcgtcgac ggcatttgtg tcgaacacga gtagcagtgg tggaaagtgt 60
 aattggagga agattaagac tagtgtatga agaaagcgaa gatagaacag atgacttctg 120
 gtgccatag cacagcccat taatacatca tattggttgg tctcgaagca taggtcatcg 180
 attcaaaaaga tctgatatta caaagaaaca ggatggacat tttgatacac caccaacgct 240
 cgag 244

<210> 528
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 528
 gaattcgcgg ccgcgtcgac ccttttttgt gaattgagtg ctgtttttgc ttttctcaga 60
 ttccaaatga gagtatacat ttttctttgt ttgatgtgct gggtgagatc tggctctgac 120
 octgctgggc caaggttctc cagaaaacca ccatatagca gattagatta caccgatgca 180
 aagtttgtgg atgtcatcca tctgactcc aatgcctatt attttgttct cagtataatt 240
 gttccagata aaactatgat gggatgaactc gag 273

<210> 529
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 529

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gaattcgcgg ccgcgtcgac ctttcattta tcatatgact tggtagaaac cgtttttctt 60
accgtataaaa acctgagctc tttagttatt ttggaaaatg aaagcacgtt cattgtcgtt 120
ctgttgggtt tccaacagaa cttggttctt gtggttactc aatatttcac tgtgttttagg 180
cctgtgggat ggagagttac caccaagagc tagaaatcag gccataaacc caccagccaa 240
tgctctccga ggaggagcca gccaccctgg aaggcatcct agggccaaca accatcctgc 300
tgcttactgg cagaggggaag agagatttag ggccatgggc aggaaccac atcaagggaag 360
gaggaaccag gaggggcatg ccagcgacga agctagagac caagaactcg ag 412

```

<210> 530

<211> 110

<212> DNA

<213> Homo sapiens

<400> 530

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gaattcgcgg ccgcgtcgac cctaaaccgt cgatggaatt ccagtagcgtt ttgttgtaca 60
ttttagtctt gtttactttc ttttcattgt taagagtatg caaactcgag 110

```

<210> 531

<211> 257

<212> DNA

<213> Homo sapiens

<400> 531

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gaattcgcgg ccgcgtcgac agacaacatc accctagccc aagacatcgc tattagagat 60
acatcacctg gacactaaag cctccacccc agtgacactc tcaagggtgct gacaaaatgg 120
acatggacat ttgttgcttt tttcttttg aattaggaac tctatttgtt ttcctgaatt 180
tactgtctgc ttggcccatg atcctgggtat gtcccttgct ctctgccaaa acatgcaccg 240
tccccccac actcgag 257

```

<210> 532

<211> 195

<212> DNA

<213> Homo sapiens

<400> 532

```

gaattcgcgg ccgcgtcgac tgtattctgg gtcactttct cttgcatagc tatcctcatt 60
ccagtagttt tcatgggctg cctaagaata ctgaacatac tgacttgttg agtcattggc 120
tcctattcgg tggtttttagc cattgacagt tactgggtcca caagcctttc ctacatcact 180
tcgaacgtac tcgag 195

```

<210> 533

<211> 197

<212> DNA

<213> Homo sapiens

<400> 533

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gaattcgcgg ccgcgtcgac gttttattta ttgcttttt ttctggctcc tgagtggcaa 60
acaaaggaat tttttatgct ggagataact tgtattattg atctaagttt aatatcttga 120
cctgtttgat ctgagagtct gttatagata tgtatctatt ttccttctt ccttcttctc 180
cctccttctt tctcgag 197

```

<210> 534

<211> 225

<212> DNA

<213> Homo sapiens

<400> 534

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gaattcgcgg ccgcgtcgac ctttaaccag cctcatttaa gttaatcacc tctttaaatg 60
ctcaatctcc aagtacagtc tcattctgag gtccagggg tttctcaacg taagaattta 120
gggggacaga attcagccc tagcagctgg gcagcaggac tcatgggtcc cagttctcag 180

```

gccccaaagga ctcagagcag caaaggatac gtgacagatc tcgag

225

<210> 535

<211> 177

<212> DNA

<213> Homo sapiens

<400> 535

gaattcgcg cgcgctcgac attctagacc agcctcacca gatggaagtt tatgcttatt 60
ttcttatttc acttggtgt catggatctc atttcttctt tctgtctcat cctctactat 120
tcacccctct ccatagaccc atccctccct tggtatttg aacaactcaa gctcgag 177

<210> 536

<211> 403

<212> DNA

<213> Homo sapiens

<400> 536

gaattcgcg cgcgctcgac cctggagctt aaaaagctgc acgcaagtgt taaacttctg 60
acaatggcca agaacaaatt aagagggccg aagtcagga atgtatttca catagccagc 120
caaaaaaact ttaaggctaa aaacaaagca aaaccagtta ccactaatct taagaagata 180
aacattatga atgaggaaaa agttaacaga gtaataaag cttttgttaa tgtacaaaag 240
gaacttgac atttcgcaa aagcatttca cttgaacctc tgcagaaaga actgattcct 300
cagcagcgtc atgaaagcaa accagttaat gttgatgaag ctacaagatt aatggctctg 360
ttgtaataata ctggtgatgc atctaattct ccacacactc gag 403

<210> 537

<211> 247

<212> DNA

<213> Homo sapiens

<400> 537

gaattcagaa cttttcagct ggggaacgag agtaccagtg agtacagctt tacgaggtaa 60
gtctgatctt gaactttcta aggaaattca agacagtcta tcagaagtaa agtggaaat 120
gtttggcctt gaatttttct tagtgttaga agcccttttg ttccttttca catgttatca 180
agtggttaag gcagggcgga ttctagatga aattcaggac aatctatcag aagtaaaggc 240
actcgag 247

<210> 538

<211> 396

<212> DNA

<213> Homo sapiens

<400> 538

gaattcagcc aaagaggcct aaaaaaggag aagaaagaaa agaaacctgc tgttggcgta 60
tttgggatgt ttcgctatgc agattggctg gacaagctgt gcatgattct gggaaactctc 120
gctgctatta tccatggaac attacttccc ctcttgatgc tgggtgttgg aaacatgaca 180
gatagtttta caaaagcaga agccagtatt ctgccaagca ttactaatca aagtggacct 240
aacagtactc tgatcatcag caacagcagt ctggaggaag agatggccat atacgcctac 300
tattacaccg ggattgggtc tgggtgtgctc atagttgcct acatccaggt ttcactttgg 360
tgcctggcag ctggaagaca gatacacagg ctcgag 396

<210> 539

<211> 342

<212> DNA

<213> Homo sapiens

<400> 539

gaattcgccc aaagaggcct acttgatgac tagtccctgc ctggtaattg tggattaatg 60
tcagcgtaa tcagccctc aaaggagag aaaaagctggg cttttccctt gctgtacctc 120

```

attcagcttt  tgatttccat  ggccccacca  tttatgtgca  agatttgcaa  tggttgtcag  180
cttcctctga  agaccgagct  tgacgcctcc  atgccagctg  ccgttggaac  gcaaagccaa  240
gcaaggggtca  ggaggggaagc  tggcccggt  gactggagaa  tgggaacccc  aggactctcc  300
actcatctcg  aagggttggtg  gtccccccag  gaaagtctcg  ag  342

```

<210> 540

<211> 249

<212> DNA

<213> Homo sapiens

<400> 540

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gaattcggcc  aaagaggcct  atggtagctg  ttcggtagat  gctctttgct  atttataagt  60
gacttttaac  cttctcttgg  ctgttaagaa  atgtgttcta  gatttagcta  tttattgttt  120
gcggcctgca  tgctgaaaca  gtgcttacgt  tgtctccatg  tgtacggggc  ctgtgtggat  180
ggtcgtatgt  tttgcacatt  ttgtagtgtt  tgggtgtgct  cgccgcacac  aaaaaaagag  240
tacctcgag  249

```

<210> 541

<211> 230

<212> DNA

<213> Homo sapiens

<400> 541

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gaattcggcc  aaagaggcct  acagagaccg  tggacaacaa  aatgatgggt  tctatctgtg  60
aacagaagct  gcagcacttc  agtgcctgtc  tctgtctcat  cctctgcttg  ggaatgatgt  120
cagctgctcc  accccctgat  ccaagtcttg  ataatgagtg  gaaagaatgg  aagacgaaat  180
ttgcaaaagc  ctacaatctg  aatgaagada  gacacaggag  acatctcgag  230

```

<210> 542

<211> 365

<212> DNA

<213> Homo sapiens

<400> 542

```

gaattcggct  aaagaggcct  accaactgca  gcctccgagc  agagaacctg  gtccacgtcc  60
acttcaaaga  ggagattggc  attgctaagc  tcatcccgct  cgtgaccacc  tacatcatcc  120
tgtttgccca  catctacttc  tccacacgca  agatcgacat  ggtcaagtcc  aagtggggcc  180
tcgccttgcc  agccgtggtc  acagtactta  gctcactgct  catgtctgtg  gggctctgca  240
ccctcttcgg  cctgaagccc  aactcaatg  gcggtgagat  cttcccatac  ctggtgggtc  300
ttattgggct  agagaacgtg  ttggtgctca  ccaagtcagt  ggtatcaact  ccagtggacc  360
tcgag  365

```

<210> 543

<211> 366

<212> DNA

<213> Homo sapiens

<400> 543

```

gaattcggcc  aaagaggcct  aggatattca  tcaaggatgg  tgcagaagat  gctgacctcc  60
cgaggactgt  tctgatcct  gacaatgtcg  aacttgcttc  aggttcctag  tataatgggt  120
gagcagagat  gggctattct  ctcaactttc  cctaaaccaa  tgccagttcg  ccatgatgct  180
atagtttttc  caaaattcgt  tactactgat  aaaacagtgg  atttgccata  tttacctat  240
gatccacccc  gagcaccatt  aggagaaaat  cgctctttac  tagaacaggg  ttctttatgt  300
tttcaaatta  atggaccagg  aaattgtatc  aacctcacag  cccgagcttt  gggggtgagt  360
ctcgag  366

```

<210> 544

<211> 365

<212> DNA

<213> Homo sapiens

<400> 544
 gaattcggcc aaagaggcct acagagatga agcctccctc ccccttgact tgggttttta 60
 tttttttctt tcttgtagca tctgcatctc taatggatac tgaggggttt ggtgagctcc 120
 ttcagcaagc tgaacagctt gctgctgaga ctgaaggcat ctctgagctt ccacatgtag 180
 aacgaaatth acaggagatc cagcaagctg gtgagcgcct gcgttcccgt accctcacac 240
 gcacatccca ggagacagca gatgtcaagg catcagttct tctcgggtca aggggacttg 300
 acatatccca tatctccag agactggaga gtctgagcgc agccaccact tttgaacctc 360
 tcgag 365

<210> 545

<211> 475

<212> DNA

<213> Homo sapiens

<400> 545
 gaattcggcc aaagaggcct accagcgcgg aacaaacatg cagcggctcg ggggtatttt 60
 gctgtgtaca ctgctggcgg cggcggctccc cactgtctct gctccttccc cgacgggtcac 120
 ttggactccg gcggagccgg gccagctct caactaccct caggaggaag ctacgctcaa 180
 tgagatgttt cgagaggtgg aggagctgat ggaagacact cagcacaaac tgcgcagtgc 240
 cgtggaggag atggaggcgg aagaagcagc tgctaaaacg tctctgagg tgaacctggc 300
 aagcttacct cccaactatc acaatgagac cagcacggag accagggtag gaaataaac 360
 agtccatgtg caccaggaag ttcacaagat aaccaacaac cagagtggac aggtggtctt 420
 ttctgagaca gtcattacat ctgtagggga tgaagaaggc aagaggaacc tcgag 475

<210> 546

<211> 436

<212> DNA

<213> Homo sapiens

<400> 546
 gaattcggcc aaagaggcct acaacgtcta aattatgtgc cactcgcgca accatctcca 60
 caccatgact ggcttgaggg ccccttctcc agctccctcc accggcccgg aactccggcg 120
 gggctctggg cccgaaatth tcaccttcga cctctctccg gagcgggccc tgggtgtccac 180
 cgcgcgtttg aacacttctc gcgggcaccg aaaacgcagc cgaagggtag tctacccccg 240
 agtgggtccg gcgcagctac caaccgagga acccaacatt gccaaagagg tctctcttct 300
 cctgttcgcc atcatcttct gccagattht gatggctgaa gaggggtgtg cgcagccct 360
 ggctccggag gatgctacca gcgcctgac acctgagccc atttctgcgc ccattactgc 420
 gccccgggc ctcgag 436

<210> 547

<211> 393

<212> DNA

<213> Homo sapiens

<400> 547
 gaattcggcc aaagaggcct acgcatecac tgccgtccgg tcagacacgc tgaaggtagc 60
 gctctgtcga agacttttga tgtgtctgac attctcttgc actttctcca gcagctggcg 120
 cacctgccgg cagtagttag ccacttttga ctcccggaga aaagatttca gctgtagaac 180
 agtaggcaac accaactctg ggaaagcgat ggtgtggggc tggctgcgca ggtattccag 240
 agtaaggtag cacagctgtt ccagcagccc gtcccgttac gccttctctt gcaggttggg 300
 gctggacagc ttcaagatca cagagaagtt gatgggcttg gagctcatgc gacctggccg 360
 cctattgaag tccacctgct ggaaaatctc gag 393

<210> 548

<211> 447

<212> DNA

<213> Homo sapiens

<400> 548

gaattcggcc aaagaggcct agctggttaa tcaactcata gatcttgtcc agatacaact 60

```

agatgtatta tgacaaataa ctcagcaggg atgtgaacaa aagtttccgg gattgtgtgt 120
tatttccatt cagtatgtta aatttactag ggcagcta atgtcaaaaa gtctttttca 180
gtatatgtta cagaattgga tgactgaatt tgaacagacc ctctgaggct tgccatcatt 240
caggtcaact ccacgcgctt ggacctgtcc ctgaccaaaag gattacccaa ttggatctcc 300
tcagcatttt ctttctttaa aaaatgggtg ggattaatat tatttggaga tacactttgc 360
tgtggattag tgttgcctct ttgattggtc tgtaagctta aggcctaaac taggagagac 420
aaggtgggta ttgcacaggc actcgag 447

```

<210> 549

<211> 313

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (220)

<400> 549

```

gaattcggcc aaagaggcct aaagaaaggg ggctgcagaa atggctgggg caattataga 60
aaacatgagt accaagaagc tctgcattgt tggagggtt cttctgggtt tccaaatcgt 120
tgctttctct gtgggaggct tgatcgtctc agcaccacac acagcagtac cctacacggc 180
aataaaatgt gtggatgtcc gtaagaacca ccataaaacn agatggctgg cgccttgggg 240
acctaacaa gtgtgacaaga tccgtgacat cgagggaagca attccaaggg aaattgaagc 300
aatgagctc gag 313

```

<210> 550

<211> 392

<212> DNA

<213> Homo sapiens

<400> 550

```

gaattcagcc aaagaggcct agaggaaatc tttaagacat ggctggagct aaggcgtacc 60
gacttggagc agttctgctt cttatccact taattttcct catctctgga gccgaagcag 120
cttccttcca gcgaaccag ctgcttcaga aagaaccaga cctcagattg gagaatgtcc 180
aaaagtcttc tagtcagaa atgatcaggg ctttggagta catagaaaag ctcaggcagc 240
aagctcacag agaagaaagc agcccagact acaatcccta ccaaggcgtc tctgttcctc 300
ttcaactcaa agaaaacgga gaagaaagcc acttggcagg gagctcaagg gatgcaactga 360
gtgaagacga gtggatgcgg ataatactcg ag 392

```

<210> 551

<211> 419

<212> DNA

<213> Homo sapiens

<400> 551

```

gaattcggcc aaagaggcct atgagcttat agcttccaag ggccccctt ggctattttc 60
ttcctccatc agtcaagtgt ttaattcagt gtaacctacc agtctgtcct gggttgcatg 120
tctagcatat gtggagggtc tttttcactt tcttgacct catgtctgct tctcttgagt 180
ctttgttttt atagcaggaa gttagtattg ggggcttgaa tgatgcaggg caccaacaga 240
accattgcag gactgaaatc ccagactac cgataccttg tgggtcgggt ctcagcttca 300
ctaagaaagc agaacggctg cttatgtcga agcctctgtg acagtcaagg gggtcacac 360
ctacattatt gctgccaggg gtcacagccc tgacctttgc cttccagact tttctcgag 419

```

<210> 552

<211> 223

<212> DNA

<213> Homo sapiens

<400> 552

```

gaattcggcc aaactcttta tctgttttgt taaaacatta taattttcct aggtgaggaa 60

```

```

aatgttaggg aaattgagag tgaaggacgg ttcttggcag gtcagggggt ttatttttat 120
ttttatctat ttttttttat tgtttctcct tagctgctgt ctgttcagtt ttgagactct 180
tcagtttcta gctttatatt catacaaagg cgttgcgctc gag 223

```

```

<210> 553
<211> 289
<212> DNA
<213> Homo sapiens

```

```

<400> 553
gaattcggcc aacatgacga agttaacaca gtggcttttg ggactggctc tcctgggctc 60
tgcttgggct gccttgacca tgggagcact gggcttggag ttgcctttcc cctgccgaga 120
ggctcctgtg cacttgctg cctacctgtt ggtctcctg ggctgctatg ccttgggcac 180
ggtgggctat cgcgtagcta cattccacga ctgcgaggac gctgcccag agctgcagag 240
ccagatcgtg gagggccgag ctgatttagc acgcaggggc attctcgag 289

```

```

<210> 554
<211> 331
<212> DNA
<213> Homo sapiens

```

```

<400> 554
gaattcggcc aaagaggcct agttttctcg ctatattcca ggtcctacag tgtgtttttc 60
tcagtttggg agtttttcag tgtttctcat catattccag gacatacatt tttcaagtca 120
atttttccac gttattcagt tttctccaca cattccaggt catagagtgt ttgtgtctct 180
tttccatgtt tttcagtttc ctcccataat ccagggtacta cagtgtgttt tttttcattt 240
atctcgttat ataccatttt ttaccatatt ccagggtccta ctcttgtgtt tctcattttc 300
catgatttta cattttcatg ctttactcga g 331

```

```

<210> 555
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<400> 555
gaattctgccc aaagaggcct accagcaccg ggtgccaggg gccatggagc cccgggcagt 60
tgccgatgccc ttggagaccg gagaggaaga tgcggtgaca gaagctctgc ggtcgttcaa 120
ccgggagact tctcagagct tcaccttcga tgatgcccg caggaggaca ggaagagact 180
cgcaaaagcta ctggctctccg tcttggagca gggcttgtca ccaaagcacc gtgtcacctg 240
gctgcagact atccgaatcc tatcccagaga ccgcagctgc ctggactcat ttgccagccg 300
ccagagctta catgcactag cctgctatgc tgacattacc gtctcagagg aacctatccc 360
acagtcccca gacatggatg tctcctcga g 391

```

```

<210> 556
<211> 480
<212> DNA
<213> Homo sapiens

```

```

<400> 556
gaattcggcc aaagaggcct aagacgatca gataccgtcg tagttccgac cataaacgat 60
gccgactggc gatggtggca aaggcaattg aggaggattc tgaatgatgc ggcccatttc 120
tacacctcca aaaatcacct gtccaggatt ggagtaccga ctggagactg ggtactgggt 180
agcagcatca cctgcatgct ctgctgaccc tacagctgtt gtctgattgg ttaagacatc 240
caactgcaca ttttgatttg ccagcagggg ctgcaccagc cctatgctct ggggtgggaga 300
cagagcttga gcagagctgt ggattgggtg aataggggatg ttcactgtac agggcggggt 360
gttttcaggg acacctgatg ctctgttaac tggtaagtca tctcatctt cactgaaaac 420
gtttgggttg aagacaggca ggttaatata gtccatggaa atcttccata ctctcctcag 480

```

```

<210> 557
<211> 406

```

<212> DNA

<213> Homo sapiens

<400> 557

```

gaattcggcc aaagaggcct agatgaagaa agcacacgtg ttggggatca cgttctcctt 60
caccagggcc atgatgtatt ttctttatgc tgettgtttc cggttcgggtg cctacttggg 120
ggcacaacaa ctcatgactt ttgaaaatgt tatgttggta tttcttctgt ttgtctttgg 180
tgccatggca gctgggaata ctagttcatt tgctcctgac tatgcgaaag ccaaagtatc 240
agcatctcat atcatcagga tcattgagaa aacctctgag attgacagct acagcacaga 300
gggtttgaag cctactctgt tagaaggaaa tgtaaaattt aatgaagtcc agtttaacta 360
tcccaccgca cccaacatcc cagtgtctca ggggctgagc ctcgag 406

```

<210> 558

<211> 337

<212> DNA

<213> Homo sapiens

<400> 558

```

gaattcggcc aaagaggcct atctgaatat gcgttgtttg gcagctcggg tcaactataa 60
gactttgatt atcatctgtg cgctattcac ttgggtcaca gtacttttgt ggaataaagt 120
ttccagcgac aaagcaatcc agtttcctcg gcacttgagt agtggattca gagtggatgg 180
attagaaaaa agatcagcag catctgaaag taaccactat gcccaaccaca tagccaaaca 240
gcagtcagaa gaggcatttc ctcaaggaaca acagaaggca cccctgttg ttgggggctt 300
caatagcaac gggggaagca aggtgtttgg gctcgag 337

```

<210> 559

<211> 374

<212> DNA

<213> Homo sapiens

<400> 559

```

gaattcggcc aaagaggcct acctcaacgc caccaccgcc tcctcactcc atggccatga 60
gagccgcctg cctcttcctg ctgttcatgc ctggcctgct ggctcagggc caatatgacc 120
tggtatcctct cccccattc cgggaccatg tccagtacaa ccactatggc gaccagattg 180
acaacgcaga ctactatgac tacciaagaag tgagtccctg gacccctgaa gagcagttcc 240
agtcccgaca gcaagttcaa caggaagtca tcccagcccc taccacagag ccagcagctg 300
caggggacct ggagactgag cctaccgagc ctggcctctt tgactgccgc gaagaacagt 360
accattact cgag 374

```

<210> 560

<211> 285

<212> DNA

<213> Homo sapiens

<400> 560

```

gaattcggcc aaagaggcct agccgctgcc gtcgccatga cccgcggtaa ccagcgagag 60
ctgcgccgcc agaagaacat gaagaggcag agcgactcgg ttaaggaaag cggcgagatg 120
atgggctttc tgctgccgcc cgcaagcaga gggactcggg gatcatgcag cagaagcaga 180
aaaaggcaaa cgagaagaag gaggaaccca agtagccttg ttgcttcgtg tccaaccctc 240
ttgccctccg cctgtgtgcc tggagccagt cccaccatgc tcgag 285

```

<210> 561

<211> 425

<212> DNA

<213> Homo sapiens

<400> 561

```

gaattcgggc aaagaggcct acgaggagaa tggagaccaa acctgtgata acctgtctca 60
aaacctctct catcatctac tcttctgtct tctggatcac tggggtgatc ctgttggccg 120
ttggagtctg gggaaagctg accttgggaa cctatatctc cctgattgct gagaactcca 180

```

```

caaatgctcc ctatgtgctc attggaaccg gcaccaccat cgtgggtttt ggctcttttg 240
gatgctttgc tacatgccgt ggtagtccat ggatgctgaa actgtatgcc atgttctctg 300
cctgggtgtt cctggctgag cttgttgctg gcatttctgg atttgtgttt cgtcatgaga 360
tcaaggacac ctctctgagg acttacacgg atgccatgca ggactacaat ggcaacgaac 420
tcgag                                           425

```

<210> 562
 <211> 238
 <212> DNA
 <213> Homo sapiens

```

<400> 562
gaattcttca gctgaggaac ggtggtacca ggtgaagaaa atccactttg ggtcccgacg 60
cgactgacaa ggaccgtgaa agagcaagat gaacccaag atgattctcc tgcctctgat 120
gattgagaca gggataagta tacctttgtg ggccatagta agatcatggc cagtaccttt 180
accggtacat tccaattctt ctaccttgcc tttatttttt gcaacagaaa ctctcgag 238

```

<210> 563
 <211> 359
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (203)

```

<400> 563
gaattcggcc aaagaggcct agtttgagca cttcagcctc ttttttgtct gcgtgtttca 60
gatcaacgtc ttctttctaca cagttccatt agccatcaaa ttaaaggagc atcccatctt 120
cttcagtgtc attcagattg ccatcatctc tatcttcaag tccatccaa ctgtggggga 180
tgtggccctc tacatggctt tcnttccctg tgtggaacca tctctacaga ttctgcgga 240
acatcttctg cctcacctgc atcatcatcg tctgtctctt ttcttccctg tgtggaacca 300
tctctacaga ttctgcgga acatcttctg cctcacggc atcatcatcg tccctcgag 359

```

<210> 564
 <211> 399
 <212> DNA
 <213> Homo sapiens

```

<400> 564
gaattcggcc aaagaggcct agctttggtc tggaccgagc ggggcagcgt cccgggctcc 60
cgagtgtctc ccatggcgga tacgaccccg aacggccccc aaggggcggg cgtgtgcaa 120
ttcatgatga ccaataaatt ggacacagca atgtggcttt ctgcctgtt cacagtatat 180
tgcctcgcctc tgttcgttct gcctcttctt gggttgcatg aagcagcgag cttttaccag 240
cgtgctttgc tggccaatgc tctgaccagc gctctgaggc tgcacagag attacctcac 300
ttccagttga gcagagtgtt cctggetcag gccttggttag aggacagctg ccactacctg 360
ctgtattcac tcatcttctt caactcctac cccctcgag 399

```

<210> 565
 <211> 373
 <212> DNA
 <213> Homo sapiens

```

<400> 565
gaattcggcc aaagaggcct aggcgacaag agtctggagg tggcggtatg gaatccatt 60
aaggtgcgat tgggagttag ccgagtctct ttgaccagc tagagcgcca gcgtctctct 120
gaaccggcac actttggcaa agttgcaatg gcctgtttgc ttaggcactg aagtggatga 180
tgggttaggat gacaacttgc agagaacgcg gatgagacct tcagtgtgtg cccacactca 240
tttgacgcaa ccctaacaga gattgtgaag attttcaaag tggggcacct cgatttctcg 300
aatctgtggt gtggcgaaata tccgtgttcc tctgtcttaa ctagectgtt tgaaggcaca 360

```

gttcattctc gag

373

<210> 566

<211> 133

<212> DNA

<213> Homo sapiens

<400> 566

```

gaattcgcgg cgcgctcgac gccctactca attcatgctt ttctctccag cagtcatgaa 60
ctgctgggct ctgactaaac acctgatgtt atttcaagct gttgaccttt gctcatttct 120
caacctcttc gag                                     133

```

<210> 567

<211> 281

<212> DNA

<213> Homo sapiens

<400> 567

```

gaattcggcc aaagaggcct acctttcccc actgcaaaac caggctcggc ttccctcgtg 60
ctcatctacc tatagtgtat ctgagggtata ttttgacagt gttttcttac atgggtcaata 120
acatgctcgc cctcaccatt ttctctattt tattttcctt tgcctttaat ttattttgcc 180
ttgcactttg cacttgctcg aaagggatga ggataccaaa gggggaaaat tcacctgttt 240
tagggggaaa ttctctctatt ttatgaatg gtgcactcga g                                     281

```

<210> 568

<211> 624

<212> DNA

<213> Homo sapiens

<400> 568

```

gaattcggcc aaagaggcct acctcccgcc tgctgcgggt gccctggatc cagtcggctg 60
caccaggcga ggcgagacct tccctggtgg aggcctcagag ttccggcagg gtgcacccgg 120
cctgtgtgtg gcgcgaggca ggggaagccgg taccggggtc ctggccccag cgctgacgtt 180
ttctctcccc ttctctctct ctgcgcggtt gcggcgtcgc agacgctagt gtgagcccc 240
atggcagata cgacccccga cgccccccaa ggggcggggc ctgtgcaatt catgatgacc 300
aataaactgg acacggcaat gtggctttct cgtttgttca cagtttactg ctctgctctg 360
tttgtttcgc ctcttcttgg gttgcatgaa gcagcaagct tttaccaacg tgcctttgctg 420
gcaaatgctc ttaccagtgc tctgaggctg catcaaagat taccacactt ccagttaagc 480
agagcattcc tggcccaggc tttgttagag gacagctgcc actacctgtt gtattcactc 540
atctttgtaa attcctatcc agttacaatg agtatcttcc cagtcttggt attctctttg 600
cttcagtctg ccacagcact cgag                                     624

```

<210> 569

<211> 467

<212> DNA

<213> Homo sapiens

<400> 569

```

gaattcggcg cgcgctcgac gtgctggggc atgagatgta ttctcttctt tgttctctac 60
tctatctctg tgggtggaaa aaattactcc cattctatag aagagagacc agaacctccg 120
agaggacaag caactttctt agggggcaca gctaggaggg taggctgaat aatgatcccc 180
ctaaaaatgtc cacattctaa tccccaaaac ttatttaaaa agggactttg caggggtgac 240
tgagttaagg atcctcagat gaggaggctt tcatggattg tttgggtggg cccaatgtaa 300
tccaaggatc ctttcaagag caaggcagga gggccagagt cagagaaaac gacacgacaa 360
tggaagcaga ggttgggggtg atactggagt gggagggggc accagccaag gaatgcaggc 420
agcctctagg agctggaaaa ggcaagaaag catgtttctt cctcgag                                     467

```

<210> 570

<211> 269

<212> DNA

<213> Homo sapiens

<400> 570

```
gaattcgcgg ccgcgtcgac gctgggggaa aaaagaaact aaatcaaata aaaataaatt 60
ttcaaatttc atcaacaagt ggtacattca gtataaaact acaaatgccc atatagatta 120
ttacaaaggt acataccaat caagaactag gcatcacatc caggaactgt gcatacatat 180
taaatcattc attacagatt tttactttat tgtgaagtat attcaataaa atataagtga 240
cagaaatgag aaaatccaca gtccctcgag 269
```

<210> 571

<211> 208

<212> DNA

<213> Homo sapiens

<400> 571

```
gaattcgcgg ccgcgtcgac ataaaaagta tagtaaatac ataaaccaat aacatagtca 60
cttattatca ttatcacata ttatgtactg tgcactgttg tacgtgctgt acttttatac 120
agctggcagc acgggtttgt ttgcaccagc atccccacaa acatatgagg aacatgtaca 180
tcttaccacg gttgcaactt cactcgag 208
```

<210> 572

<211> 178

<212> DNA

<213> Homo sapiens

<400> 572

```
gaattcgcgg ccgcgtcgac tccctactga agatagcttt gcttgaatga gcttgcctgc 60
agtgcgaatg ctgggggctta ttgtgttgac ggcgcagtcg ccattggttg tgcgtcctga 120
ggacatgggtt acttccctga ctatctgtca tgcctcactg gtacccegtg gcctcgag 178
```

<210> 573

<211> 172

<212> DNA

<213> Homo sapiens

<400> 573

```
gaattcgcgg ccgcgtcgac tgccagagag tttatagtag ttgaatatgg attatgaaca 60
gttactttta tttttaattt tttgggggac ggaatcttgc tctgtcaccg aggcctggagt 120
gcagtgtgtg gatctcagct cactgcagcc tctgcctcct ggggttccctg ag 172
```

<210> 574

<211> 183

<212> DNA

<213> Homo sapiens

<400> 574

```
gaattcgcgg ccgcgtcgac tgcttttggg ggacagagtg aatttctccc aaattactgt 60
cttctgcctc ctaaatcagg accacatttt tcaggtgtgc ttatttgggg aacgaggcct 120
ggctctgtgt ccgctgtatt gctgatgaag ctaaaaatta agggattaat ggcacccctc 180
gag 183
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<210> 575

<211> 224

<212> DNA

<213> Homo sapiens

<400> 575

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gaattcgcgg ccgcgtcgac cctttttcag tattgtttca ggaaatggta ttgtttgttt 60
ttattttact ttttactgtt tcttgggtac atgaccaatg tcatttgact ggtgagtaca 120
ttgagctagc agcttttagag aaatttcatg gtgatctaga gatgcagac agctccctgc 180
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actggcagcc tactttacaa ctaccatctg agaagggact cgag 224

<210> 576

<211> 249

<212> DNA

<213> Homo sapiens

<400> 576

gaattcgcg cgcgctcgac cagaaaacca atgtttaaca ttcacagagg attttactgc 60
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 cacttcactg aggatcctgg ggctttccca gtagccacta atggggaacg atttccttgg 180
 caggagctaa ggctccccag tgtgggtcatt cctctccatt atgacctctt tgtccacccc 240
 aatctcgag 249

<210> 577

<211> 251

<212> DNA

<213> Homo sapiens

<400> 577

gaattcgcg cgcgctcgac catcctttgg gacttcagtt cctgcttttc tttgtgaatt 60
 tttccctatt cgtatcctgt ccatattcct aagcaatata taccgtaggt ttgectgtat 120
 ttaaaagtgg catcatgtcc tttaagttat tccagtttgc ttttttgta ctcagcatta 180
 tatcttggga tacatccatg ttgatgcagg cagctgaggc tcatttactt tttcccccact 240
 gcaaaactcga g 251

<210> 578

<211> 161

<212> DNA

<213> Homo sapiens

<400> 578

gaattcgcg cgcgctcgac agaggttgg cgcgccttga gagttaagcg aagtgtgggtg 60
 gcttccaagg aatacaaaaca taaaggcctt cgaccgttgc aaatagacta aagtgaaaaac 120
 aaatctgaat gaagatgaag ttatttcaga cggttctcga g 161

<210> 579

<211> 173

<212> DNA

<213> Homo sapiens

<400> 579

gaattcgcg cgcgctcgac gcacgcactt catctggggc tgcagtgaag aagtattcta 60
 gttggagtgc tgcaaaccca gccttaatga tctttggcaa agcactttgt gtcagtgttcg 120
 cttccagata cttctgtctc tcttcagcac tcaattcttg caactgcttc gag 173

<210> 580

<211> 160

<212> DNA

<213> Homo sapiens

<400> 580

gaattcgcg cgcgctcgac agatgccat gaattcttaa attacctact aaatacaatt 60
 gctgatattt tacaagaaga gagaaagcag gaaaaacaaa atgggtcgtt acctaattgt 120
 aatattgata atgaaaataa taacagcaca cccactcgag 160

<210> 581

<211> 262

<212> DNA

<213> Homo sapiens

<400> 581
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 ctctttcatt gcttgtggaa aaacctttat ccagggaaga attaataact tcaacaatac 120
 tatcaaagga gggcctaaaa ttaaaaaaaaa aaaagaaaca aaaaagtgtg gaaacaacaa 180
 caacaacaat acttggcaaa ctctgacag acttagggag aatattatga tattgaggct 240
 gctgttgact aaggcactcg ag 262

<210> 582
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 582
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 aggtatttat ctcaaaattc atttgtgtgt ttcaaacaga atttcacaaa attctggctc 120
 ttaacaataa ataattgtga ttctaaacat cagaattgta acaggaatac tcgag 175

<210> 583
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 583
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 tgtgcaaaac agcacagggc agtttagggc tcttcatagc tatcttcatg tacacattta 120
 ttgggcttac gagcactctt ctctctcagc ttttcccatc ccttatcgcc acctcgag 179

<210> 584
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 584
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 gcttatcaag actaacaata agcacatcca cagccggagc actttggaat gtgcctacag 120
 gacgcacctg gttgctggta ttggttcta ccagcatctc cttctctata tccagtccca 180
 ctaccagctg gaactgcagt gctgcacga ctggacccat gtcactgacc cccatgctcg 240
 ag 242

<210> 585
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 585
 gaattcgcg cgcgctcgac ccagaaaaga aaagatagtg atttaacaaa cttttcctgc 60
 tcacctacat tgtcttcatt catatttatt agaattgacca acatacttta ccattccttc 120
 aatcacttta atttcattat gtttggttaa tttttcttct tgataaacca gttgtccctc 180
 agtatactcc agggattcat tccaggagca cctgtgtata ccataattca cacactcgag 240

<210> 586
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 586
 gaattcgcg cgcgctcgac cactttcact gggccagaca gaaaacaaga aatctttttt 60
 gtgttgccaa atcaaagagg catgctttta cagaaacttg ctttgagat tcttcacctc 120
 gtgctggta tgatactttc agtcccatc caaggagggg taaaatacac tctcgag 177

<210> 587
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 587
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 ttctttattt tcatggcaac ctacaaattg acttcctttg ttctcatcac cgtctttgtt 120
 gttagaatat gttcagagag tctcgag 147

<210> 588
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 588
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 aatttctgtg tgaagtacag ttggaacagg ttatctccac atttgggtct tttacctctt 120
 agcatagtgt gatttctctt ctctttttta aaaatccacc tccttctctt ctagcatagt 180
 gtgatttctt taaatctttt ttatctctatg ctaaatgtat gggttttttg tttgtttgtt 240
 tggctctact ctgtcaccca ggctgaagtg ttcagtggcc gtctcgag 288

<210> 589
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 589
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 ttaccattgt ttgttgatct ctgggtgcagc caaatgaagc ccatcatgct tgtcctctgc 120
 ctggaagctc ttccttccct ctctctggcc aatggctact gtcccttcag agcacctgtt 180
 cagatgaaac ctccaccaag caccctcgag 210

<210> 590
 <211> 229
 <212> DNA
 <213> Homo sapiens

<400> 590
 gaattcgcg cgcgctcgac ccgggtagta ttccatcata tatatataat cagatatata 60
 tacataatca gatatatata tatataatca gatatatata tctcagtttc tttatccact 120
 catttgcaat tatttaattt ttaaataaaa cactttataa acacataaaa ttatgagatc 180
 tctagttata tttctcatgc taagccactg tgettaccce tgctctgag 229

<210> 591
 <211> 152
 <212> DNA
 <213> Homo sapiens

<400> 591
 gaattcgcg cgcgctcgac ctccattctt tcatgtgtag gtttaatat gtggacccaa 60
 tctgtgttct ggtaatggaa ttaattttga taacatcatt agggctgggc acagttgtct 120
 atgcctataa tcccagcact gaaaagctcg ag 152

<210> 592
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 592

gaattcgcg cgcgctcgac caaagattcc tacccaatcg tgtacacact gtctctaate 60
 tcctctcttt gcttggcctg gacctgtgaa tatgataatc acgcccttga ctgctttact 120
 tagtatagga ctccatttta gcagaatgaa gagtggtttcc cctactgac tcgag 175

<210> 593

<211> 235

<212> DNA

<213> Homo sapiens

<400> 593

gaattcgcg cgcgctcgac tctgtattct aatgaatagt aatagctgac attraatgaga 60
 actgtatttc agacaccgtg ctaagttctt ttcattgtatt atctcattta atctttgtaa 120
 caaattgatg aggtgggtca tatttttatt tattttattta tgtttgagac aggggtcttg 180
 tctgtctgct aggctggagt gcaatggagc tatcactcct cactgcagcc tcgag 235

<210> 594

<211> 244

<212> DNA

<213> Homo sapiens

<400> 594

gaattcgcg cgcgctcgac aaatctatca gtgcagtata tatacaacct tgtcagacga 60
 gtagctgaca aaggaatctc cctagtacaa cttgtagcag tactattata aagaattcct 120
 gacttgacac attttgatga agttgggtga aataatttgt tgggtttggt caatttttgg 180
 tgtcatttat ataaaaagaa taaagaagaa tgtgaatggt aggaagtcag gcgagatgct 240
 cgag 244

<210> 595

<211> 229

<212> DNA

<213> Homo sapiens

<400> 595

gaattcgcg cgcgctcgac tgatgggttct cctgtacccc agggcatggc cctgtatgca 60
 ccacctcttc ccttgccaaa caatagccga cctctcacc cttggcactgt tgtttatggc 120
 ccacctcctg ctgggggccc catgggtgtat gggcctccac cccccaactt ctccatcccc 180
 ttcaccccta tgggtgtgct gcattgcaac gtcccagAAC accctcgag 229

<210> 596

<211> 218

<212> DNA

<213> Homo sapiens

<400> 596

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 ggatcatggt gggttgccag cagggaattt gtcttggttg agcctgctct gtgctcccca 120
 ctccatttct ctgtccctct gcctgggcta tgggaagtgg ggatgcagat ggccaagctc 180
 ccacctggg tattcaaaaa cggcacacac aactcgag 218

<210> 597

<211> 153

<212> DNA

<213> Homo sapiens

<400> 597

gaattcgcg cgcgctcgac ttctagacct gcctcgagca aataaaaaac ccagttctaa 60
 atcataaaaa tagaagaccc agttctagtc atgtggcatt catttatctt ttgggggaatg 120
 tccctcttat gcctttgtag aacacaactc gag 153

<210> 598

<211> 194

<212> DNA

<213> Homo sapiens

<400> 598

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gaattcgcgg cgcgctcgac atttttccct gtttttggtg aggtaatgaa gaaggaaaaa 60
aaaaaatctca tccaaagatg caaagaaaca atctgctggc ccaggtcatt tccatggtat 120
ctttttgttt ctcttttctt tgttttgtaa gtacatgcat tttggctgaa aaagatacag 180
gcaccattct cgag                                     194

```

<210> 599

<211> 232

<212> DNA

<213> Homo sapiens

<400> 599

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gaattcgcgg cgcgctcgac cagaaaccca taaagatttc ttttaaggatt tggatccgat 60
atctttctga attaggccct aaattattat gaatgtgaac ctagggtata tgtcttgct 120
gtgggatgtg tgctgcgata ctttgaagca gaatgatttg tggatcattt taccagtcct 180
ttctcttttt tggtcacaaatg cagatggcat ggaggaaatg gaaagactcg ag 232

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<210> 600

<211> 227

<212> DNA

<213> Homo sapiens

<400> 600

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gaattcgcgg cgcgctcgac cacaggtttt gaggaacacag agagctaaaa gttggagtgt 60
ttattctatc cacttttttag actttgcaag agtgtgcac cacaatcaca tatatatgga 120
tggaatcact gaatcttttt catctcttat tcagaataca tctgcttctt gctttcaca 180
tgtgcaattt tgctcttttc tgttgtgcag ctatgggaga actcgag 227

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<210> 601

<211> 198

<212> DNA

<213> Homo sapiens

<400> 601

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gaattcgcgg cgcgctcgac tgaagaacgc cgaagaaggg aagaacaagt catacaggtt 60
taaatcttgt ttcaacttgt tgctagttat ctagatttgt tgcccaaagt gtatcagcaa 120
atgttcaagg tttttatact tgtaagggtt gttttcatta ttcacgtgtt aaaagtgaca 180
tcattctccc aactcgag                                     198

```

<210> 602

<211> 233

<212> DNA

<213> Homo sapiens

<400> 602

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gaattcgcgg cgcgctcgac cagaatcaaa tataaggcta aaattattag tgcatacagt 60
gaaattgagc aaccgcgtgt gttagaaatt aaaagggtgag ttctgttatt caccaactgt 120
taatttagcc caaaaagtgc cgagaaggag ttgggagtgg actccaatct gttatgaaag 180
tgagacaaac attcttgttc cttctgatcc ctttcagtag cagttctctc gag 233

```

<210> 603

<211> 119

<212> DNA

<213> Homo sapiens

<400> 603

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gaattcgcgg cgcgctcgac gattaattct agacctgcct cgagcgtat cttttcactt 60

```

tggggcacag ttttacacgt gataacaata gtatgctgat ttccaaggtt ctccctata 119

<210> 604
<211> 188
<212> DNA
<213> Homo sapiens

<400> 604
gaattcgcg cgcgctcgac ggtccttga ggaataacct tacaaacgtt taaagacttt 60
taattttaat ttttattttt ttccagctt tattgaagta taattgacaa ctgaaagact 120
agttggtaat tgaaattagg actcattttt atagtcagac aatgttaata tttaggagga 180
gtctcgag 188

<210> 605
<211> 193
<212> DNA
<213> Homo sapiens

<400> 605
gaattcgcg cgcgctcgac ccagtatgtc tttctatttg tattcaactat gtctactttt 60
gttcagatt acagagtttag actattcccc tttttcttca tgcgttttgc agattaccaa 120
agttccagag aacctgctac cctttgcagt gcagtgcaga aacctcactg tgtccaatac 180
ccgaacactc gag 193

<210> 606
<211> 173
<212> DNA
<213> Homo sapiens

<400> 606
gaattcgcg cgcgctcgac ctggagtgcc tgggtgtgtc ctccggaatg ctggtgccgg 60
aactcgctat cctgtgtgtc tacctgctgg gggcactgac catgctgagt gaaacgcagc 120
acaagctgct ggcggaggcg ctggagtgcg agaccctgtt ggggcgcgtc gag 173

<210> 607
<211> 310
<212> DNA
<213> Homo sapiens

<400> 607
gaattcgcg cgcgctcgac cttttcacct tctaggagat cgactcacct tctttttcct 60
acctttctat tgcattttta ttttgttgac taaaatttta cttttctaaga gctcatcttg 120
ttttctgatg gttttttctt ctcctcctca atccaaccca tcccctctcc ttccctggca 180
tcaactgctt tccccctttt cctttttctt ctctctcctt ctccttcact cctctttctt 240
ctctctctt cttcctgtgc tcctcctctt cctctttctt ccacctgcat cctgttcccc 300
agcctcgag 310

<210> 608
<211> 189
<212> DNA
<213> Homo sapiens

<400> 608
gaattcgcg cgcgctcgac agaggcaata cagtaaaaaa tacacggtag aaactgagtt 60
accagtgcac accaaaactt gggtagggag aatataccta aagttgtcct tagaaggaaa 120
attgtagttc tgtatatcaa catattaaag atgaaaaata aatttaaaac aatagcacia 180
agcctcgag 189

<210> 609
<211> 188

<212> DNA

<213> Homo sapiens

<400> 609

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gaattcgcg cgcgctcgac gagttaagtg gcagaaccgg gattcaaact caagttctcc 60
ctaacatcct ggaagccaag ggaaaggagt aatgaaatat gaaagtgaga aacactgttg 120
gctgggcatg gtggctctctg cctataatct cagaactttg ggaggctgag gcaggcagat 180
cactcgag                                     188

```

<210> 610

<211> 202

<212> DNA

<213> Homo sapiens

<400> 610

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gaattcgcg cgcgctcgac cttctcttgta ttctctttat ctctctcagc tattttctgt 60
ataatatcct cagatctatc ttctagttta taaattttct tcaaccatga ctaattttat 120
gttatacttg tccaagatgt ttttaatttc agtgacaata tttttcattt tgaaagtctt 180
gttttttggc cagactctcg ag                                     202

```

<210> 611

<211> 166

<212> DNA

<213> Homo sapiens

<400> 611

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gaattcgcg cgcgctcgac gattgatttt tcatatgttg aatcatcctt tcgttttggg 60
tttattctgt taggtcatgt tgtgtaattc ctttttatat gttactggat ttagtttctt 120
agcgtttttt gaggattttt gcactcttaa ttgtaaggga ctcgag                                     166

```

<210> 612

<211> 152

<212> DNA

<213> Homo sapiens

<400> 612

```

gaattcgcg cgcgctcgac gaagatacta aaactacttt ttctccaca ggataattgt 60
agacgtacat tcaaaataga agtaaattaa tggtaatat agttcttcta tttttaatta 120
atagattaaa cctttggacc acggcactcg ag                                     152

```

<210> 613

<211> 194

<212> DNA

<213> Homo sapiens

<400> 613

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gaattcgcg cgcgctcgac tagtagtggt gcattgtggt ttttaattgc atttcttga 60
tgaccattga agttgagcac attttcatat ttatagatca ctccagtato ctgttttggt 120
tagtgtctgc taaaatcttt tctccatttc tctattgggt tgtctttttt tctgttttaa 180
gcaacacact cgag                                     194

```

<210> 614

<211> 258

<212> DNA

<213> Homo sapiens

<400> 614

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gaattcgcg cgcgctcgac cttttagtaa aagtaaatat ttctgtctct tttctgtctt 60
tttattttcc tgcctcagtc tgtgttatct attttctatt ttcttttaac ttgcttttga 120
tttaatttgc tgtttttctaa tttctcaagg tagaagccca gatttttgat ttgagacctt 180

```

tcttttccctt ttttgaatat aagcatttga taatctgtgt tttcccttat gtactgcttt 240
tgctgtgtcc tgctcgag 258

<210> 615
<211> 188
<212> DNA
<213> Homo sapiens

<400> 615
gaattcgagg ccgcgtcgac ccttccctgca acaagatgat cgtgagtcag ctgtccctata 60
acgcgcgtgc tctgacctgg ctgtccctgag ggagcctgtg cctgctgggg tgcatagcgg 120
gctgctgctt catccctctt tgcgtggatg ccttgcagga cgtggacctat tactgtccca 180
tactcgag 188

<210> 616
<211> 149
<212> DNA
<213> Homo sapiens

<400> 616
gaattcgagg ccgcgtcgac gtccattcat tgattcattg aatgattcat ttactcaata 60
agcatatatt tgggtgccatc ttggcccagg cactatgctg ggcattagag aaatttgaca 120
gtgggttagg gcaaggccct gccctcgag 149

<210> 617
<211> 193
<212> DNA
<213> Homo sapiens

<400> 617
gaattcgagg ccgcgtcgac aggatttaac ctatagagtt ctgattcttt cttcccttca 60
atttttatca agtatttaatt tgcccaactgg atgatttatt ttagaattgg cctacttttt 120
tttttttttg gcttcagtgc ctgtgggcaa atgtaaattt gcagctgaat tagcaaacca 180
gggacgactc gag 193

<210> 618
<211> 233
<212> DNA
<213> Homo sapiens

<400> 618
gaattcgagg ccgcgtcgac atctgtaagt ctctctttac ctcttccctt ctctctttct 60
gcctccctcc tttctctctt agtttcccca gagtgttgcc gagctaagg tcaatcagag 120
gactcttaga taccttaatt ttttttggtt ttatttttga agaaaggat catcgttccc 180
attaggacat gtatttaca tgtgttttct tttgcttgtc caccacactc gag 233

<210> 619
<211> 211
<212> DNA
<213> Homo sapiens

<400> 619
gaattcgagg ccgcgtcgac caaagttgtg tttcaaacat catataatgc tctgacctga 60
aggagttcta ataaatactt tcttccctca ctttacatca ccagtgtatg ttttaaagtc 120
ctttatagat tgggtgctct ggtattgcct agctgacctt tccctaactc tccccgggc 180
gccccaccg ccaccaaca caacactcga g 211

<210> 620
<211> 187
<212> DNA

<213> Homo sapiens

<400> 620

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gaattcgcg cgcgctcgac ttttgttgc gttagtatcg tcgcaacagc aaagagttta 60
ataacattta ttttctagtg tattgcagta atcattcttc ttttttttaa atttctaagc 120
tgttttatta aatgaaaaga gaacaatgct aagcagcttg tatggtgtgt gtgttgtgtg 180
gctcgag 187
```

<210> 621

<211> 170

<212> DNA

<213> Homo sapiens

<400> 621

```
gaattcgcg cgcgctcgac gttgattatc aaattgtttt tgagtgagtt ttggtagttt 60
gtgtctttta aggaattggt ccattttttt ttttaattgt caaatttggg ggcataaagt 120
tatttatgct gttaccttac tatcttttta atatcogtta tggctcgcag 170
```

<210> 622

<211> 247

<212> DNA

<213> Homo sapiens

<400> 622

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gaattcgcg cgcgctcgac gttttaaaaa attctgttta atatctgctt agttggctgg 60
ctgcctttgt gttttcccta ctagattgta agctcctaga ggacaaatta cagagcttat 120
ttattggtgg ttttaattta atacattttt ttctctacag attagtgcaa accagtctgc 180
acagatgcga gttatatctg taaacttgct tggatatttg gtttacatac actatcatac 240
tctcgag 247
```

<210> 623

<211> 244

<212> DNA

<213> Homo sapiens

<400> 623

```
gaattcgcg cgcgctcgac gattagcaga ataacatcgg atcaaaactg tctagcctgc 60
agttccctt aattttgtat tataaaaaaga aaactaaaca gagaaaactt taaaagacaa 120
tataatgata ccacgtagat tccagtactt gttaacagtt tgccatattt gcttcgtctg 180
tgtgtctttt cggaaccatt tgaaaattgt agatatgaca ttccacccca acaccagct 240
cgag 244
```

<210> 624

<211> 135

<212> DNA

<213> Homo sapiens

<400> 624

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gaattcgcg cgcgctcgac cgcattttac caaccatatt ccttttttaac tctacaaatg 60
gtgcagataa tcgaacact tatagttcat ttattgtttc caccctccca ctctgcacat 120
gactgttata tcgag 135
```

<210> 625

<211> 140

<212> DNA

<213> Homo sapiens

<400> 625

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gaattcgcg cgcgctcgac ataaaaacag cattgtagta cattaactaca gctttgtggt 60
atattttgaa gtctggtagt gtgatgctc cagctttgtt ctttttgcctt aggatcgctt 120
```

gtctctttcag ggctctcgag

140

<210> 626

<211> 249

<212> DNA

<213> Homo sapiens

<400> 626

gaatttcgagg ccgcgtcgac cctttattca gacccctcact gctttgtacc tggactactg 60
 taacacacctc ctgtctgatt gaatctagtt catctgttac actgagggtga gattaaattt 120
 gctaaacaca gtaattttgt accactcttt agccccaat tacgtagtgc tcatagtctgc 180
 taaaataaga acaaactctt tagcttttcc aggtcttcca taataatgcc caaacatacc 240
 catctcgag 249

<210> 627

<211> 197

<212> DNA

<213> Homo sapiens

<400> 627

gaatttcgagg ccgcgtcgac ttctaaacat ttgctgttga agtgttttaa tatttctagt 60
 tcacaacatt gatcaagttg gaatctttta ttatcttgaa sagtttatc aaagatatat 120
 ttttctgatt ttcatcttgc agcttttctt tgtttttttt tgtgagactg aatctcttta 180
 aaaaggccga gctcgag 197

<210> 628

<211> 178

<212> DNA

<213> Homo sapiens

<400> 628

gaatttcgagg ccgcgtcgac gaagaatact gtgtattatc aaaatggtaa cattgtgttt 60
 ccttctgaaa ctgttttctt ttcattcagc attactgttg acatctatcc ttactgatac 120
 ttccaagtctt gttctttctt cttatgggat tctactaatt aatccaccac atctcgag 178

<210> 629

<211> 273

<212> DNA

<213> Homo sapiens

<400> 629

gaatttcgagg ccgcgtcgac aacactcctt atgacaagct gccacaaggc aagggcatca 60
 gatctcttta gtcaaggcaa gtttctcagc ctgtatactg attatgtttt gggtcgata 120
 attatttgtt gttggggctg tctgtgtat tgcagcgtcc tgggectttg cccactagat 180
 gccaatagca tccctttccc caatgtggca accagaaatt accaaatgtt acctgagagc 240
 aaatctctt ttacttctcc catccctcc gag 273

<210> 630

<211> 216

<212> DNA

<213> Homo sapiens

<400> 630

gaatttcgagg ccgcgtcgac gtattatcaa atcattttgt gaaatcacct cattttaaga 60
 tttttaaatc taatgagtggt gagtaaaaa catactaatt ttgtctgtaa tttagtatgt 120
 cttttctttt tctttaagtt tgtgccattg gattattctg ttctataga aatccccact 180
 ataaaatgta aaccagacaa acttccattt ctcgag 216

<210> 631

<211> 168

<212> DNA

<213> Homo sapiens

<400> 631

```

gaattcgcgg ccgcgtcgac gttctataaa gataaatccc ttctcctgcc attttatattt 60
attatatttg cataggggtt ttttaartca atgttttata atccattgca gttcttttttg 120
atgctcccat tgtcacagat ttggctggta gtagtctccc cactcgag 168

```

<210> 632

<211> 193

<212> DNA

<213> Homo sapiens

<400> 632

```

gaattcgcgg ccgcgtcgac cagtttgatt tttagctcaa attgttggtt aaaataaatt 60
atgaatttga acgtattcag ctatgggttt cttttttatc tgctctaaaa gtgccttagc 120
tacaatagtt ttttctctgt tactcttcac tgtaattttt ttttatgaag gaaaatcgct 180
ggagggactc gag 193

```

<210> 633

<211> 211

<212> DNA

<213> Homo sapiens

<400> 633

```

gaattcgcgg ccgcgtcgac gaaatataaa aactatgatg ctgcttcttt cttttttttt 60
cttgagacac agtctcactc ttttgccgag gctgtactgc agtggtgagg tctgcactca 120
ctgcaacctc tgctcccca gttcaagtga ttctcctccc tcagcctccc tagtagctgg 180
aattacaggg atgtgccacc acgacctcga g 211

```

<210> 634

<211> 253

<212> DNA

<213> Homo sapiens

<400> 634

```

gaattcgcgg ccgcgtcgac atcattttctt ctcatgctt agtactgcta ccttagtttt 60
gttctctatg atttcttgcc tgtgttatta taatagatcc ctaagtgggc tctttgtcta 120
cattctcacc cctccattt tatccattg tgctttccag aaggaaacttt ctaattgtag 180
atctgattgt gctctcttg gggcacacat cgtatcactg ccaggacagg accaagtacc 240
aagcaacctc gag 253

```

<210> 635

<211> 312

<212> DNA

<213> Homo sapiens

<400> 635

```

gaattcgcgg ccgcgtcgac cctgggtctgt cccaacatga aggcaataat ttgttacctc 60
attaatagat ctgtcctttt tcttttcaaa cagttcctta tgttacccat gaaatctagc 120
tggggctgtg tggttttctga tccccctgg cttattcttt acttttccca cttttccagg 180
ctcagcaggg agctgctgga tgagaaagag cctgaagtct tgcaggactc actggataga 240
ttttattcaa ctctttttga gtacctggaa ctgcctgact tatgccagcc ctacagaagt 300
gacgaactcg ag 312

```

<210> 636

<211> 168

<212> DNA

<213> Homo sapiens

<400> 636
gaattcgcg cgcgctcgac agccagagca atagtaatgt ttatagacca tctttctcat 60
aaatgccact gctcactatt gtacatatgt ctttttcaag ttttttggga agacctccct 120
cctctgctac catatttccc taatgtctgt gaaactaagt acctcgag 168

<210> 637
<211> 262
<212> DNA
<213> Homo sapiens

<400> 637
gaattcgcg cgcgctcgac gcattgaatc cagggttttt gtttcacttt gttttttcaa 60
agaatacttc ttaagtgtgt gtattttttt gttgtattac atcatgtggc aaatgatctc 120
tgtctgtgat gttatgattg atcaggtttc aggtgtttatc agtttgatta ttcccttgta 180
ccttgtcagc ttttaccagc tgatttcagt ggcggttaat ggtcatggcc tagattcact 240
atttcaggaa ggcacgctcg ag 262

<210> 638
<211> 254
<212> DNA
<213> Homo sapiens

<400> 638
gaattcgcg cgcgctcgac cttttcacga ttcattgctg aaggctttat tctatgaaga 60
cctttgttgc tgaagggtatg aaggatgttg tagtaatgga aagtatttta ctgatctttt 120
atttcctttt aaattttttg agacagagtc tcgtctgttc atccacgttg gagtgtggta 180
gcgtgatctc agctcactgc aaccctctgc tctggggtt aagcacttct cctgcctcag 240
cctcccaact cgag 254

<210> 639
<211> 169
<212> DNA
<213> Homo sapiens

<400> 639
gaattcgcg cgcgctcgac ttttttcaa attactcata accagaagag ttctgttggga 60
ttttaccata tggccagatt catcttgctt ttcaaactta tgtaagtaat ttttccaaat 120
ctcttttttt ccataacat acatgtctgt gagtccactc ctctctcgag 169

<210> 640
<211> 159
<212> DNA
<213> Homo sapiens

<400> 640
gaattcgcg cgcgctcgac cctaaaccgt caattgaatt cttagcaagga atttgtgggc 60
aaacctacta ttttagacac tattaataag actgaattgg cctgtaataa cacagttatt 120
ggttcccaaa tgcagttaca gctgggaaga gtctctcgag 159

<210> 641
<211> 230
<212> DNA
<213> Homo sapiens

<400> 641
gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctaggcgtga gccaccacac 60
ccagcctgct atagcttttt ctttgcctgag atttgttttt ccatttgctt tactagatta 120
cttgaagcgc ttttataatg actgctgcag ctctctgtgt gaagaattcc agcgtctgtg 180
tcctcttggt gttggcatct acctattatc ttttctctct caaactcgag 230

<210> 642
 <211> 253
 <212> DNA
 <213> Homo sapiens

<400> 642
 gaattcgcg cgcgctcgac gcttttaaga actttcaa atttttctcca gctgtatatt 60
 gggtgtcttc agggaagagt ttgttctgaa tttgcctcgt ctgttttcca gaagtga aaa 120
 tttgaaccga ctgacctttt agtttttagt actgtatttt taaatatttt atttgcttcc 180
 ttttagaagc tacatgctca atttttgtag ttctctatac ctcatataa tttttgagct 240
 cagccagctc gag 253

<210> 643
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 643
 gaattcgcg cgcgctcgac cccgcacac ctccaagtc cccaggtcca cctgcattgc 60
 agcagactgc cccagccaca cccacgctct ctccctcttc tgtacgcatg acgctccttt 120
 ctgcctctga gcatttgcatt gtgctgttcc ctctacttgg aatactcttc cctctttttt 180
 tttttatttt tgagacagag tctcactctg ttgccagggc gattctcttc tctcagctc 240
 tcgag 245

<210> 644
 <211> 197
 <212> DNA
 <213> Homo sapiens

<400> 644
 gaattcgcg cgcgctcgac cggatttcaa ggaattttta gactttgtgg attttttctt 60
 cactataatt gtatgtttgg ctccctaatt atttaaatta catatagata tattttttgtt 120
 actttgagaa tagtctatct gaaatttgaa gttctttaga gcttaataata ttaaataatgc 180
 taacactcat cctcgag 197

<210> 645
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 645
 gaattcgcg cgcgctcgac ggggaattact atctacctct tagtggtata tttggaatga 60
 atgaaataac acatggagag aatttagtac aatacctggc acatcatata catgtttaaa 120
 gtagttctta tgcttgtatt gaagttatta atgatgaact tggagattgg cacgggaata 180
 agaaagaggg ttggcagaga tgttgagaag gttgaattga caggcagtg ctgtctggat 240
 gttagggcaa ggctcgag 258

<210> 646
 <211> 174
 <212> DNA
 <213> Homo sapiens

<400> 646
 gaattcgcg cgcgctcgac gcaattcttc gctgaagtca tcatgagctt tttccaactc 60
 ctgatgaaaa ggaaggaaact cattcccttg gtggtgttca tgactgtggc ggcgggtgga 120
 gctcatctt togtgtgtta ttctcttgg aaaaccgatg tgatccttct cgag 174

<210> 647
 <211> 201
 <212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (92)

<400> 647

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gaattcgcgg ccgcgtcgac gtaaaaagat tctaacagga aggaggaggg tgtaataaaa 60
tagaaatggc atctctagaa ataatgttca tntttaagat tgattatagg gaggaaaatg 120
aaacacaatg agcctttcaa aaaataagtc atgagacttt gggcaaaaaa caaacaataa 180
aatatgaggt caactctcga g                                     201
```

<210> 648

<211> 198

<212> DNA

<213> Homo sapiens

<400> 648

```
gaattcgcgg ccgcgtcgat ttttgccatg aatgggaaaa gctttttttc tctttttttc 60
tttttcgtgt tttttttctt tgtttcaaat tcttctcttg gctcattgct cttaatgctt 120
tgtctccta aaagaggtac ctatgtaaaa acggaagtat ctggccctac gcagtggaaa 180
aagggactaa cactcgag                                     198
```

<210> 649

<211> 216

<212> DNA

<213> Homo sapiens

<400> 649

```
gaattcgcgg ccgcgtcgac gcaatttgaa tataatatgt ctagggtgtag ctttctctct 60
tttttttagca tttattctgc ttggtatttt cttagcttct cgaatttggt gttgggtatcc 120
gacattgatt tagagggaat tcacagtcac tattgcttta aatatttctt tctgttccct 180
cttctctctgg ttttctctgtt acatgtacac ctcgag                                     216
```

<210> 650

<211> 157

<212> DNA

<213> Homo sapiens

<400> 650

```
gaattcgcgg ccgcgtcgac cctaattcaga aggcattgtt ttagtatttc ttgggagtgt 60
cagctgtata atgcagcagc tgttcaatcc cttacccttc tctgcaagga cttccttaca 120
gcttggtgca gttcttttccc agaggccacc actcgag                                     157
```

<210> 651

<211> 158

<212> DNA

<213> Homo sapiens

<400> 651

```
gaattcgcgg ccgcgtcgac aatcatttca gatttccagg aaagttgcaa aaatatcata 60
aagaaaatata tacccttcac tcagattccc aaatgttagc acttcgccac atctgctcca 120
ttcttttttc tctctcttca cacacacaca cactcgag                                     158
```

<210> 652

<211> 227

<212> DNA

<213> Homo sapiens

<400> 652

```

gaattcgcg cgcgctcgac agcccatgaa agattccaga acagagtttt gtaggttaaag 60
ttaagtgtat tacctggaaa gtctgttcca tgttgataaa cccaagtcc gaagaaggaa 120
agttgtgtt tcaaggtatt ttctttctct gtctctttct ttctctctgt gatgcacaca 180
aacacacaca tatacacata caatctctga attcactcaa actcgag 227

```

<210> 653

<211> 265

<212> DNA

<213> Homo sapiens

<400> 653

```

gaattcgcg cgcgctcgac ctttcccatc cctagattcc tttgtgctgc ttgtctacat 60
tgtatgataa acatcacatt aaatgcaatc tctccctccc caccctctct ttttttttga 120
gataggatct cgcttgctgt gttgcccagg ctgcagcgca gtgggtgtgga tcgtggctca 180
ctgcagcctc accgtctggg ctcaagtgat cctccccag agcctccact tccagttacc 240
cgggactata gacacgtacc tcgag 265

```

<210> 654

<211> 240

<212> DNA

<213> Homo sapiens

<400> 654

```

gaattcgcg cgcgctcgac gtgaggttga gggtccttcc atatattcac gggctgttta 60
tgtttatttc ctgtgagcta gctcttgata tctagttccc tgattcttcc ccaagaaaaa 120
ttccataaat attttcacag gattgtgtta aattcctaga ttaatttga aagaactgat 180
tttatgttgc atctttttat ccaagaactt gttatgtttc tccatttgtt caacctcgag 240

```

<210> 655

<211> 190

<212> DNA

<213> Homo sapiens

<400> 655

```

gaattcgcg cgcgctcgac gtgagacctt gtctcaaaaa cagaacaaaa agcaaaacaa 60
ctgtattagg ggccagatgt ggtggctcat gcttgtaatc tcagtgtctt gggaggctga 120
gatgggagga ttgcttgaag ccaggagttc aagaccagcc tggggaacaa ccaaaccctg 180
tctccctata 190

```

<210> 656

<211> 164

<212> DNA

<213> Homo sapiens

<400> 656

```

gaattcgcg cgcgctcgac tgatttttta aatatatgtc ctttattaaa aatatatgaa 60
gtgcaatgaa agacaaaacc tgtgcattcc tcattgtagc acctattttt aaggcttccc 120
tatctgagtc agctcagttt ttgatgtggg cggaaagtct cgag 164

```

<210> 657

<211> 172

<212> DNA

<213> Homo sapiens

<400> 657

```

gaattcgcg cgcgctcgac caacaggga acaggagtgt catcaaaagt aaattccagc 60
cgagacattc tctctatat gagaagcaaa agtgaaagga aaaatttttg aaaagtaaaa 120
cactgaagag tcatagtatt ctctgtaac ttggaactgg agtgggtctc ag 172

```

<210> 658

<211> 165
 <212> DNA
 <213> Homo sapiens

<400> 658
 gaattcgcgg ccgcgtcgac aaataaagta gggatgccat ctgctatatt caaatgtcct 60
 tgcagattgt tttttctaat cttatggta tttctgata ttcttaaatt agatagtgt 120
 tgctatgtta acacagagca gatagtattt gcacaatgcc tcgag 165

<210> 659
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 659
 gaattcgcgg ccgcgtcgac cacacacaca tacacacata tatatatata actttataaa 60
 gtatcatgta atatttttta taatttatct ttaattccaa taactagggt acatagattc 120
 taaagttctg aatcctatag gcaagtgggt caattatttt atccatgtcg tctagatacc 180
 tccttatttc taaatattat ttcttaattt tttcaatatt agatgttgtt attgattgtc 240
 tcacagatgc catccctaag gacgtactcg ag 272

<210> 660
 <211> 253
 <212> DNA
 <213> Homo sapiens

<400> 660
 gaattcgcgg ccgcgtcgac taggtttagt tgtcttaaca aaaaccagtc gaggaaaagt 60
 ttttagttaa gcagaatact aaataaaaat attaatccag gctcagatat cttttgtttt 120
 gatccctttg aaagtcagaa ctggttttgt ttaggagtat tttatgtatt tgatttttat 180
 tcttaactat tcccttatga tggtagctgt tctttcagca aacagttatt ttgtgcctat 240
 tgcgtgcctc gag 253

<210> 661
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 661
 gaattcgcgg ccgcgtcgac cgattgattt cgttagtact ttccaaaaat actaaacaat 60
 aagatagtag tggagctttg tcctattcct tacttcaatc agatattttt aatgctttcc 120
 tattaagatt agatctggct ttagattgaa gcgtacatat tttatcatgt taaagtattc 180
 agctgttact gtttttttaa agtttttgtt ttgttttgtt ttgtttttt gttttttttt 240
 gaggcagagt ctcactctgt tgcctaggct ggagcgactc gag 283

<210> 662
 <211> 120
 <212> DNA
 <213> Homo sapiens

<400> 662
 gaattcgcgg ccgcgtcgac ttgaattcta gacctgcctc tcacctggac cactggagga 60
 acctctgat tggtcgccat gctttcactc ttgtccacc tattttctca cgcactcgag 120

<210> 663
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 663

```

gaattcgcgg ccgcgtcgac aactgcaatt acttctgtac caaccttaata gtttgcttag 60
tgttttttatc atgaaaaggt attagattctt taaaatgttt tttctgtctg ttgagggttat 120
cgtgtttatct tgctttgttg tattattgtg gtgtataatt ttttttgaga cggggctctg 180
ctctgtcgcc caggctggag tgcagtggcg cgatctctgc tcaactgcaag ctccacatct 240
cgag 244

```

<210> 664

<211> 193

<212> DNA

<213> Homo sapiens

<400> 664

```

gaattcgcgg ccgcgtcgac taaactcctg agctcaagtg atccttctac ctccgggctcc 60
caaagtactg gtattacaga cgtgagccat ggcccccagc ctgtctctgt gttttaacct 120
tcatttagta ttagttctac aaatgattac ttatttaatg ctcaatacta gtctctgtgt 180
cagtatcctc gag 193

```

<210> 665

<211> 329

<212> DNA

<213> Homo sapiens

<400> 665

```

gaattcgcgg ccgcgtcgac cctcctcttc tgtcaccagt gccctcgccc cctccgatgt 60
catcacctca ccggggttcc ttaccgtctt catttgccac tgaaacctac tttggagaat 120
atacagattc cagcgataat gactcagtc agcttagaaa ttctgtctgag tctgtttcag 180
aagatgatac aactgaatca cagaattatt ttggctcatt gagaaaaaat aaaggaagtg 240
gcacatggga ggaaaagccc aaatcacatg aagctatcca agctctgaat acatgggaag 300
taaataaagt gacaacttct ggactcgag 329

```

<210> 666

<211> 189

<212> DNA

<213> Homo sapiens

<400> 666

```

gaattcgcgg ccgcgtcgac tgcattggatg tgtatgtgtt tgtccccagc caaaatgacc 60
tttctcgtgt ccattattct gttatgtgtc cattactgtc ccacctccat gcctttcccc 120
aggggtgttc ttaacctgg aatgctcatt tccctcttt tatctctgcg tgtaaacccc 180
aaactcgag 189

```

<210> 667

<211> 218

<212> DNA

<213> Homo sapiens

<400> 667

```

gaattcgcgg ccgcgtcgac tatacatcca gaaaagtaca tagttcagtg ctttttctac 60
taagtgaatg catctgtctt taaaaagtga ccacccccat aacagaaaat agaattgtac 120
cagcattcca aagaccctt ctctgttacc tctccctct tctccaagcc acactccttt 180
ctgacttctg tcaactataga tcaattggcc aactcgag 218

```

<210> 668

<211> 129

<212> DNA

<213> Homo sapiens

<400> 668

```

gaattcgcgg ccgcgtcgac cctcactcgg cgcattttta ttgcaagatc acaaattggca 60
agaaatatct ggtactttgt ggttagtctg tgttacaagt ttttgcata cttccgagca 120

```

acactcgcgag 129

<210> 669
 <211> 251
 <212> DNA
 <213> Homo sapiens

<400> 669
 gaattcgcgg ccgcgtcgac cagtctggtg gtgggtgcgg agtctgcggc cgttcccgcg 60
 gcctctctct cctcccgggt ccttcacccc ccaccccgca cccctttccc catcccggct 120
 ccgtcacccct ccggtccccc acactcagga caagaatgcc ctgcccggaa caaccagca 180
 gcgcctagat ggcttttggtc acggtccagc ggtcacctac ccccagcacc acctccagcc 240
 cgcaactcga g 251

<210> 670
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 670
 gaattcgcgg ccgcgtcgac ccctatgcca aaatctccct atcattaaaa tacaacaccc 60
 caaccctagc aaaaccattc ctgataccac gtgttgctat tatccactat ctctcctcca 120
 gtcctatcaa aacttggggt tgctgtttct gatgctatta ttgtctctgc tcgag 175

<210> 671
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 671
 gaattcgcgg ccgcgtcgac cttgcctggc aggagtggct tctaagaaga gctgttgatt 60
 gttgaacttt gacgctaagg tgagggtttg gattttttgg ggatagcttt attttggtat 120
 aatttttagaa aagtttgaga atagtacacg agttctctat tacccttcac cttaggtcac 180
 gatgatttgc gttttgcccc atttactcga g 211

<210> 672
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 672
 gaattcgcgg ccgcgtcgac caccagacca gttctgtgcc tccatctggt ttctgacttg 60
 tgcgatcggt tggcagcccc atcagctgct acctcctctt tgtctctttg ccggtgtggt 120
 tatgctattc aaagtacctc tattttaatg gagttttggg acctatcaaa tataaatata 180
 ccatttcctc aagaccattt ttcttttcta accagtaaat ttatatggca ttattttttt 240
 cttacagaag ctctcttttt ttctctcttt tctttctttt tttggaggct ctcgag 296

<210> 673
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 673
 gaattcgcgg ccgcgtcgac gagatgaatc caggctataa catttaacaa gaccttatta 60
 aaagcttcaa gatgttagcc tttatctggt ccatatctag cttacttggg tgtttttggg 120
 ggatcacatg tctgtcctcc aaactggaaa cgtctaactc tccaggagta ctcgag 176

<210> 674
 <211> 137
 <212> DNA

<213> Homo sapiens

<400> 674

```
gaattcgcgg cgcgctcgac cccatctatg aagaactgaa agaccgcagc cgtagaagaa 60
tgatgaatgt gtccaagatt tcattttttg ctatgtttct catgtatctg cttgccgccc 120
ccatcctctg cctcgag                                     137
```

<210> 675

<211> 202

<212> DNA

<213> Homo sapiens

<400> 675

```
gaattcgcgg cgcgctcgac agcattttta gctttgtaca ttcaaagtca tgcatacttc 60
tgagaggtcc tttaatgtga agattttttg cttgcacac ttctcttgga acatcttcat 120
cttctgtttg ctaatttcta cttttagtta tttatttttt aaattaaatg tcatatgggc 180
ttattattgg gatagcctcg ag                                     202
```

<210> 676

<211> 227

<212> DNA

<213> Homo sapiens

<400> 676

```
gaattcgcgg cgcgctcgac aaaagaagtt aactagagtg ccatcaaagt cactggactt 60
gaataaaaaat gaatatcttt ctctggacaa aagcagcact tcagattctg ttgatgaaga 120
aaatgttctt gagaaagatc ttcatggaag actttttatc aaccgtatctt ttcatatcag 180
tgctgacaga atgtttgaat tgctctttac cagttcacgc tctcgag                                     227
```

<210> 677

<211> 556

<212> DNA

<213> Homo sapiens

<400> 677

```
gaattcgcgg cgcgctcgac agttggaaag cttgcagcat ctggatcaat tacaatgcaa 60
gaacatttga gctatgtcaa gctacctctt catagtgaat tatgagttgc ctttggtgat 120
ccaggcatta acgaacattg aagataaaac tggatttgtg tatctgaacg ggaactatct 180
ggtttctgtt gtgtcattgg tggtcattct tcctttgtcg ctgttttagaa atttaggata 240
tttgggatat accagtggcc tttccttgtt gtgtatgggt ttctttctga ttgtgggtcat 300
ttgcaagaaa tttcagggtc cgtgtcctgt ggaagctgct ttgataatta acgaaacaat 360
aaacaccacc ttaacacagc caacagctct tgtacctgct ttgtcacata acgtgactga 420
aaatgactct tgcagacctc actattttat tttcaactca cagactgtct atgctgtgcc 480
aattctgac ttttcatttg tctgtcatcc tgctgttctt cccatctatg aagaactgaa 540
aaaccgcagc ctcgag                                     556
```

<210> 678

<211> 196

<212> DNA

<213> Homo sapiens

<400> 678

```
gaattcgcgg cgcgctcgac atttgtttta ttcagataga gtttacatgc agtaaaatct 60
attctttttt aggtttgcag tttgatgagt ctgacaatgt atagtcatat aaccaacact 120
acagttgaga tatagaatat taccocagaa agttccctgt accttttagt gattctcttc 180
tccccacgt ctcgag                                     196
```

<210> 679

<211> 226

<212> DNA

<213> Homo sapiens

<400> 679

```
gaattcgcg cgcgctcgac tgcttttagta ataaattgcc taccagtttt gtaaagcttg 60
gtatatctta tttttctttt gactttttgac aaacacagaa gtaataataag tccctcgtat 120
ccaactagca gctcctcagt tatcaattcg tggcccatct catttcacct gctcttattt 180
tttagttttt cattttgtaa tgcttgatc caacacagtg ctcgag 226
```

<210> 680

<211> 113

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (104)

<400> 680

```
gaattcgcg cgcgctcgac actaagggtg gagtcactgt gcccggcctg atgatttttt 60
tatcatatct gtgtttctgc agagtttttag tggctaaaga aagnacactc gag 113
```

<210> 681

<211> 196

<212> DNA

<213> Homo sapiens

<400> 681

```
gaattcgcg cgcgctcgac taagaatggt atgttatcaa aataccttta atagtcacct 60
tatagcactc tgctatttgt catccagttt tatgcatcaa acacaatata ccttttggtt 120
attcctaact gctcaatggc aaacacacgt tccagaatat agtcatggga ttacaacat 180
aatgacctgc ctcgag 196
```

<210> 682

<211> 226

<212> DNA

<213> Homo sapiens

<400> 682

```
gaattcgcg cgcgctcgac tgagaatggt ggtagtggtc agaagagtca aaaaatggca 60
gttaattatt cagttatttg ctacttggtt tttagcgagc ctcatgtttt tttgggaacc 120
aatcgataat cacattgtga gccatatgaa gtcataattct tacagatacc tcataaatag 180
ctatgacttt gtgaatgata cctgtctct taagcacaca ctcgag 226
```

<210> 683

<211> 196

<212> DNA

<213> Homo sapiens

<400> 683

```
gaattcgcg cgcgctcgac taaaatacag ttgaagattt ggctgcattt ttgccttacg 60
attacatacc ttaataatta caactcaatt gaggggtcca tatatattct ttctcatttt 120
ctggcagtaa atcatattca tcatataact ccaatttttg cacacacaaa aatgaaaat 180
agccccctat ctcgag 196
```

<210> 684

<211> 193

<212> DNA

<213> Homo sapiens

<400> 684

```

gaattcgcg cgcgctcgac aactttattc caaaagtagt gcatgtggag aaagaatcta 60
gactttcttg tatacatttt tctcttctcc agtaataaac aattaccttt catttatact 120
ttgataacct gtatttaatt taaaaaaaaa cataaaaaatg aggaaccaag tgaaactacg 180
gatattcctc gag 193

```

<210> 685
 <211> 258
 <212> DNA
 <213> Homo sapiens

```

<400> 685
gaattcgcg cgcgctcgac actttctgact ctgtcagtat tccctatccc tgctcctgat 60
ttcttctttt tcatagccgt cgccttaaca cacattctac atttgactta ttttctttt 120
taatcatcta cgtccctcca ctaggctgta aactacagga tgacaaagggt tttgtctgtt 180
tttttcattg ctggctgttc aatatctaatt ctagtgcctg gcatgtcatg gacaattaat 240
aaatgtgaac acctcgag 258

```

<210> 686
 <211> 197
 <212> DNA
 <213> Homo sapiens

```

<400> 686
gaattcgcg cgcgctcgac gtattaatag tattcctaatt gtgtgctgca gaaatggcta 60
tgagcctctt aaatttacat ttgcaactta aaggtagttt tagaagggaag tacaaattgg 120
ctttcatctt gcaaacaatc gtttttctaatt tcattatctt aatttgcttt gtcactcata 180
aaaaggaaac actcgag 197

```

<210> 687
 <211> 304
 <212> DNA
 <213> Homo sapiens

```

<400> 687
gaattcgcg cgcgctcgac agaagtaaag atcctgaata acttctcaag gttatagtca 60
cacagctagt aagaagcaaa gtggcattgt taatacctcc caccattaaa aaaaaaaaag 120
gtggttatag caaagtatac actagaataa tttagattgt ttgagatgga tacagggtatc 180
tcttttttta aattagtagg tacaaaacaaa gaacttgaaa accacatcct tttagattct 240
ttgttggttc taggagtgtt tttcaaggctg gttagtaatt tgtgtttccc tgggccatct 300
cgag 304

```

<210> 688
 <211> 156
 <212> DNA
 <213> Homo sapiens

```

<400> 688
gaattcgcg cgcgctcgac gttaaacctt ggctaatttt attgtctttt tgtagagatg 60
ggatttcacc atcttgccct ggtgtgtctt gaactcctgg gctcaagctg tccctccgcc 120
tcaagcctcc cgaagtgtgt ggattgcaga ctcgag 156

```

<210> 689
 <211> 329
 <212> DNA
 <213> Homo sapiens

```

<400> 689
gaattcgcg cgcgctcgac atgggacaga gtccaagcat gatggtgggc atgcccatgc 60
ccaatgggtt tatgggaaat gcacaaactg gtgtgatgcc acttcctcag aacgttggtt 120
gcccccaagg aggaatgggt ggacaaatgg gtgcacccca gagtaagttt ggcctgccgc 180

```

aagctcagca gccccagtg agcctctcac agatgaatca gcagatggct ggcattgagta 240
 tcagtagtgc aaccctact gcaggttttg gccagccctc cagcacaaca gcaggatggg 300
 ctggaagctc atcaggtcat tctctcgag 329

<210> 690
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 690
 gaattcgcg cgcgctcgac gttaaacttt acatttttaa ttaatttatg ttgtatgta 60
 tttatttgtt gaaaaaggt ctctctctgt caccctact agaatgcagt ggcgccatca 120
 tggcttactg ctctctgggc tcaagctgtt ctccatttc agcctcccca tgcaccaccc 180
 tcatgctcga g 191

<210> 691
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 691
 gaattcgcg cgcgctcgac atactgtata atttgggtga ggtctacaaa attgggtgtg 60
 actttctctt gcaaatggat ttctctctgg gaattttctt ggctgttctg gaaatgcttt 120
 cccacagctg ggtaatgtt ctaaatggct ttgataatgc tcacaccctc gag 173

<210> 692
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 692
 gaattcgcg cgcgctcgac gtgatttata atgacatcct gagaaaagtc agtgaaactc 60
 atttctaacg aataccagat ttctttaaag agtcaagtat tttctctttg tgtatgatga 120
 gatattaact tgggtgttatt tcattttttt tttttaagga gtcattctac cctgttctat 180
 ctttacttat gtgaaaatgt ttaaaactat agtttttttc atgtgccttc ttttggagta 240
 atgtcaactt ttaaatcac atgttttaaat aacttagagt gtaataaatt gtgtttaata 300
 tatactgtag ataatgatgg ttaaatgctt tgtaaacaca tgtctcgag 349

<210> 693
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 693
 gaattcgcg cgcgctcgac cctgcctcta agataaaagc tcaacttctt aacagtgtac 60
 agtgtgcaac ttccaacett tttatctgtt ctctccacct tcagtttagc gtcattccaa 120
 aaccacaccc ttgcaaaagt ttgtactcgg caccacagat gatctccagg cagctcagat 180
 ctctttcctg cctttgccct gcaactgttc ccggtacttc ctcttttatt gtagcactca 240
 gctccccagc caatctgttc atcgtcctcg ag 272

<210> 694
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 694
 gaattcgcg cgcgctcgac cagagaacag gcaaaaaatt actgaagact ttaacagcat 60
 ctgaaatgct acctttattg gatcattgga atactcaaac taaaaaagta tcaactcagag 120
 aaataatgct agaagaaatt gccttacagg aaaaacataa tttgaaaag gagaccctta 180
 tgtttgaaaa agattgtgct actcaactcg ag 212

<210> 695
 <211> 226
 <212> DNA
 <213> Homo sapiens

<400> 695
 gaattcgcgg ccgcgctcgac catattttgt ttgtccattc atcaggtaat ggatatttgg 60
 attgttcgagg gtactgttat tgctactcct attttatttt agaaatacga aaagtgaatc 120
 tcagggaagt aagttcacca aggtcagaca aatagcaaag ctgagacgca cacaaactta 180
 agtgtgtctg atgctatat tctttctctt aaccactgcc ctcgag 226

<210> 696
 <211> 194
 <212> DNA
 <213> Homo sapiens

<400> 696
 gaattcgcgg ccgcgctcgac tgaagagatt atattcctct acatcaggtc ccaaagatgc 60
 agttctctgagg gcaactggga agttggaaac tgaatatggt gaaaatgatc ccgtcactat 120
 tcctaggagc gtggctgtct cctcagcact cactgagtggt tgggtgtagta gggggcgagg 180
 gtatggaact cgag 194

<210> 697
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 697
 gaattcgcgg ccgcgctcgac tctctaccaa gccctttgtc ttgtgaattc tcttctcttg 60
 ctgattctgc atggctttct atcctattca gtatcaagtt ctgatttttt gtttattttg 120
 ttttcatttc atttctaagt attgtctaat gatcccgctc tctgtgatat ggtttggtctg 180
 tgccctact ctcgag 196

<210> 698
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 698
 gaattcgcgg ccgcgctcgac cttaattcct actacaaagc taaataatat ataaaataaa 60
 tagaaaaaat cagtgtctca agttatcctt taatgtgggg aataaaatgt ctgaaagtca 120
 tttatgaact aattttagaa tgctctacta ctggaaatat ttattctttc aacactacat 180
 ttgtttgttt agatgcttgc caacaactcg ag 212

<210> 699
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 699
 gaattcgcgg ccgcgctcgac ctaagtactt tttctttttg aagccattgt aagtgttaatt 60
 attttcgttt cattttcaga ctgttcattt ctagtgtatg caactaattt ttgtgtattg 120
 atgttatctc ccacaacttt gaacttgctt attagctcta acagttattt tgtagattct 180
 tcagggtttt cttctacaca taggattatg ttacctgttt ttgtttttt ttgtttttgt 240
 ttgtttgtct ttgtttttga gacagggtct cactctgtca ccaggaccg gaagctcgag 300

<210> 700
 <211> 124
 <212> DNA
 <213> Homo sapiens

<400> 700
 gaattcgcgg ccgcgctcgac attgaattct agactgcttc atggatacaa tatctgtgca 60
 tctctttgac agtattatgc tttttctttt cttctctttt ttgagggtgga gtctcactct 120
 cgag 124

<210> 701
 <211> 214
 <212> DNA
 <213> Homo sapiens

<400> 701
 gaattcgcgg ccgcgctcgac aggggaataag agtttttaggc atctataaaa ctgtctgaga 60
 ttttaaccttt tctcatataa gcaagggatt tgattacaca aaattttttg acagtggata 120
 gctagactgt acttatcaat ttgttcaacta ctgttctatg gctatctctg gaagaccctt 180
 taggtacaat aaggaagatg ggagagtact cgag 214

<210> 702
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 702
 gaattcgcgg ccgcgctcgac ggtagcctct cacaactccg cccttgccct ctgccttcca 60
 cttccttcca tctcatttct aaaccccaaa cagctcatct ctaaaaagat agaactccca 120
 gcaggtggct tctgtgttct tctgacaaat gattcctgct tctccagact ttagcagcct 180
 cctgttccca ttcttggtca cagctctagc cacagcagaa ggaaaggggc ttccagaaga 240
 atatagcacc gcattgggaa acagcagcct ctacccctcc ctcgag 286

<210> 703
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 703
 gaattcgcgg ccgcgctcgac gttataaagg gacacagctg aaagccttac tgatacttga 60
 aggaggccag aaagtgtgtt tcaaacctaa gcggtatagc cgagaccatg tgggtggaagg 120
 ggaaccgtat gctgggttatg atagtcacaa tgctcgag 158

<210> 704
 <211> 439
 <212> DNA
 <213> Homo sapiens

<400> 704
 gaattcgcgg ccgcgctcgac acacaattct tttcttccgc ttggatattc gcatgggect 60
 actttacatc acactctgca tagtggtcct gatgacgtgc aaaccccccc tatatatggg 120
 ccctgagtat atcaagtact tcaatgataa aaccattgat gaggaactag aacgggacaa 180
 gagggtcact tggattgtgg agttctttgc caattgggtct aatgactgcc aatcatttgc 240
 ccctatctat gctgacctct cctttaaata caactgtaca gggctaaatt ttgggaagggt 300
 ggaatgttggg cgctatactg atgttagtac gcggtacaaa gtgagcacat caccctctac 360
 caagcaactc cctacctga tctgttcca aggtggcaag gaggcaatgc ggcggccaca 420
 gattgacaat aaactcgag 439

<210> 705
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 705
 gaattcgcgg ccgcgctcgac aacacagctt agcaggaaac cctgagctgt ctgactctca 60

```

agcctgtgtt gggaaatcct gccctgtgtc gccctctgtt gcagagatcc tatctggata 120
aagtgtctggg taaccaggaa tcagaacctc tggaggacga gtatgacttc tttctgtcc 180
ctgtgtctcg ag 192

```

<210> 706
 <211> 205
 <212> DNA
 <213> Homo sapiens

```

<400> 706
gaattcgcgg ccgcgtcgac cctcaaaacta caaaggaaatg acaagagaag aaagggagca 60
gagagatcta gaacagatgc ctcaacgacg aagaatgaac agcactggtg gtcagacacc 120
cagaagagac ctggaaaagg tgctgacagg agaggagaag gctcttagac ctggagatcc 180
tggattctgt gcccgtagac tcgag 205

```

<210> 707
 <211> 279
 <212> DNA
 <213> Homo sapiens

```

<400> 707
gaattcgcgg ccgcgtcgac agaaaataag cgattacaga aggaacttag tatgtgtgaa 60
atggagcgag agaagaaaagg aagaaaaggtc acagagatgg aaggccaggc aaaagaattg 120
tcagcgaaagt tggccctttc cattccagct gaaaaatttg aaaacatgaa gagctcatta 180
tcaaattgaag tgaatgagaa agcaaaaaaa ttagtagaaa tggaaaagaga acatgaaaaa 240
tcacttagtg aaattagaca gttaaaaaga gaactcgag 279

```

<210> 708
 <211> 228
 <212> DNA
 <213> Homo sapiens

```

<400> 708
gaattcgcgg ccgcgtcgac cctaaaaccgt cgattgaatt ctgacctgc ctcgagcaac 60
ccgttcaactc aacaagccaa tctgatccca gggttgaacc tcagcgcaact tggcatcttt 120
tcaacaggac tgtccgtgct atctccacca gcagggcccc gcggagctcc ccccgctgcc 180
ccctaccacc ccttcaactc acaagccaat ctgaccccag ttctcgag 228

```

<210> 709
 <211> 189
 <212> DNA
 <213> Homo sapiens

```

<400> 709
gaattcgcgg ccgcgtcgac agggattggg aagacaaaga caaaggacga gatgaccgca 60
gagaaaagcg agaagagatc cgagaagata ggaatccaag agatggacat gatgaaagaa 120
aatcaaagaa gcgctataga aatgaaggga gtcccagccc tagacagtcc ccgaagcgcc 180
caactcgag 189

```

<210> 710
 <211> 293
 <212> DNA
 <213> Homo sapiens

```

<400> 710
gaattcgcgg ccgcgtcgac gataccttgt tacaggacag agattttctga accttaaagt 60
tgagaaataa ataaattgca caaaatagac agcctgtcat tttctagggt aacttgagca 120
agatgaatat tttctcaga tctctgctag tcttggtgtt tttctttaa actagctgta 180
tcttgctgga ggtccctgaa agtgaattaa ctttggatct cttagggtac tgtgttttga 240
atagagttta ttccaaatct atcttattat ggagtgaatg cgggcacctc gag 293

```

<210> 711
 <211> 143
 <212> DNA
 <213> Homo sapiens

<400> 711
 gaattcgcgg ccgcgtcgac ccaaaagttt gttctataat tattagagtt tgtttctctc 60
 tcatgtatca tctctttttg aaaggagtcc tgtcttgect agctctgtac aattttcttc 120
 tcatggtact ctgtgtttctc gag 143

<210> 712
 <211> 195
 <212> DNA
 <213> Homo sapiens

<400> 712
 gaattcgcgg ccgagtcgac aagaaaggtt ctcacaagcg ctcagcatct tggggcagta 60
 cagatcaact taaggagatt gcaaaattac gccagcagtt gcagagaagt aaacacagca 120
 gtcggcatca tcgagataaa gaaagacagt ctccatttca tggcaaccat gcagctatta 180
 accagtgtcc tcgag 195

<210> 713
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 713
 gaattcgcgg ccgcgtcgac gaaaagacat taagttcaaa ttttaattta ttctcatatt 60
 aatataact ccattaaaag tttaaaattt catgggagaa aatataataa ggtaaagagg 120
 tagaatcact ttcagactta agaataatgt tgatttccca aatgctcgag 170

<210> 714
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 714
 gaattcgcgg ccgcgtcgac tgttgaaatt gctctcata ttactggttt tacatggaca 60
 cagaaactag gcactttaga ggtgcacttg catggcaggc tgggccccct tttctatatt 120
 ttatttccct ttttagtata gtggtactta aaatcaactgg ttcactcgag 170

<210> 715
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 715
 gaattcgcgg ccgcgtcgac aaaatacttt ggaaataata tacattttga cattctacca 60
 agaggacaac tttggttctg gaactggttt ctatttgta aatcagtttc cttttaacat 120
 aattaatccc ttttaacaaa agcgtctctat gggattaaaa gacacgtgaa atgatacttt 180
 tattattccc attactcgag 200

<210> 716
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 716
 gaattcgcgg ccgcgtcgac gtgaaagtgc catggaaagc cattcaactcc tcaatcccaa 60
 cctgcagcaa ggtgaaggag tctctctcag ctccgaacc acgtggcagg agtttgtgga 120
 ggatctgggc tcttgagagag tattgctggt gatcttcgtc attgctttgc tgtctcttgg 180

cattgcttat tatgtgagtg ggggtgetacc cctcgtggaa aaccacctcg ag 232

<210> 717

<211> 332

<212> DNA

<213> Homo sapiens

<400> 717

gaattcgcg cgcgctcgac ccttaccata tgtagcaac ctgtgcagaa gccctaccca 60
gacctaaactg ggaactggct ctgtatatca tcatctcagg aataatgagt gcactgtttc 120
ttttggatcat tggaaacagcc tttttggaag ctcaaggaaat atgggagcca ttctgaaggc 180
ggctatcctt tgaggcctcg aacccgccct tcgatgtggg aaggccattt gatctcagga 240
gaatcgttgg tatttcattct gaaggaaact tgaacacact cagctgtgac cccggtcaca 300
gtaggggggtt ctgtggagca ggcttactcg ag 332

<210> 718

<211> 155

<212> DNA

<213> Homo sapiens

<400> 718

gaattcgcg cgcgctcgac gtgtgcttac acttctctgtg ccagagtata caccaacaag 60
tattccagaa gtccaacaag agaataataat caatcctcaa gacctaacag tgaatctagt 120
tgctaattgta cctcaagatg gagaagatgc tcgag 155

<210> 719

<211> 188

<212> DNA

<213> Homo sapiens

<400> 719

gaattcgcg cgcgctcgac gctttccgat ctactccttt tategttcct agcagtcacca 60
cagagcaaga agggagacaa gataagccaa tggacacgtc agtgttatct gaagaaggag 120
gagagccttt tcagaagaaa cttcaaagtg gtgaaccagt ggagttagaa aaccccccat 180
cactcgag 188

<210> 720

<211> 176

<212> DNA

<213> Homo sapiens

<400> 720

gaattcgcg cgcgctcgac cctgcctcga actcctgacc tcaagtgate ctcccaccto 60
agcctccccg agtgctggga ttaaagacgt gagccacggc acctggcctg aattttcttc 120
aaattcaaaa aatcctgatg aaggtttggc taaaatcttt ggtgagctac ctcgag 176

<210> 721

<211> 226

<212> DNA

<213> Homo sapiens

<400> 721

gaattcgcg cgcgctcgac tttttgggta cgttatata atttgagctc ttgactttga 60
aaagggtttt cctttttgga tcttaattcc accgtgtata aatatggatg agtggatatg 120
ggtttagggct gaagttattc tcatttaatat tcatcattag tggatcttg ttccatttac 180
tataaaacac attgcatcaa tgcactttta aaaaattctta ctcgag 226

<210> 722

<211> 222

<212> DNA

<213> Homo sapiens

<400> 722

```
gaattcgcgg ccgcgtcgac gttaatattg aagtacagtt ggcttcagaa ctagctattg 60
ctgccattga aaaaaatggt ggtggtgtta ctacagcctt ctatgatcca agaagtctgg 120
acattgtatg caaacctggt ccattctttc ttctgtggaca acccattcca aaaagaatgc 180
ttccaccaga agaactggta ccatattaca ctggtactcg ag 222
```

<210> 723

<211> 184

<212> DNA

<213> Homo sapiens

<400> 723

```
gaattcgcgg ccgcgtcgac ttaagatctt gtggtcacaa ctgatgaaag gcgcccttga 60
catctgtctg tgccctctgtt tctttttgga gatagagtct gtctctgtca cccaggctgg 120
aatgcagtg ggcgatctcg gctcactgca acctccacct cccaggttca agcgatatct 180
cgag 184
```

<210> 724

<211> 304

<212> DNA

<213> Homo sapiens

<400> 724

```
gaattcgcgg ccgcgtcgac cccaaaagga cccagacatg gcaatggaga tttgtgctac 60
ggatgctgta gatgatattg aagaaggctt taaagtccta atgaaggcag acctggtag 120
acaggaaacc ttgcaagcag aggttatccc agatccaatg gagggagagc aaacctggcc 180
cactgaggag gagctgagcg aggcaaagga tttcttgaag gaaagttcta aggtggtaaa 240
gaaggtcccc aaaggaacat ccagttacca agctgaatgg attttggatg gtggcagact 300
cgag 304
```

<210> 725

<211> 234

<212> DNA

<213> Homo sapiens

<400> 725

```
gaattcgcgg ccgcgtcgac attgaattct agacctgcc taccattcac ccagtcaca 60
gactgccaac aggaagtgtt gtttggttag ttctctacca cttgtctacc cctcctttgt 120
ccttagacca acatgtttac ctctctgctt tgccaaactta gccagcaggc catccccggc 180
cctaagctct cctggccatt atctcttagt tatggctttc acgtctcct cgag 234
```

<210> 726

<211> 160

<212> DNA

<213> Homo sapiens

<400> 726

```
gaattcgcgg ccgcgtcgac gagggggttg ggttacatga gtatatatat ctttatcaaa 60
actgaaagaa ttgtaccctt taagatttct aggccaaagt cagtggctca tgccgtgat 120
cccagcactc tgggagggtcg aggtgggttg atcgtctcag 160
```

<210> 727

<211> 335

<212> DNA

<213> Homo sapiens

<400> 727

```
gaattcggcc aaagaggcct agcattgctg agtggggacc ttttgggttg agcttatctt 60
```

```

accttttttt ttttttttaa ttcttggtgc tcttttatca cctttctctaa tcttttaatg 120
tgtctgtttg caatatgggg gttagacttt ttttatcatt accttttctt ttcttggtgc 180
gtacattttac ctttttcaca aatactgtaa gctgtcctgc tccttgaggg actacagggc 240
ctgggcaggg cccccagca acaattcacc cacagtgcac ctgcacatgc ctttcttaca 300
tgcttgcctc gtctcgaact agtcacaatc tcgag 335

```

<210> 728

<211> 425

<212> DNA

<213> Homo sapiens

<400> 728

```

gaattcggcc aaagaggcct acaacccccg ggacaaccag ctctatgtat ggaacaacta 60
ctttgttttg cgtatatgcc tggagttttg acccccagat cccagtgtcg gccagccac 120
ttccccgcct ctcatgacca ccaccacagc ccggcccaca cccctcacca gcacagcctc 180
gcctgcagcc accactccac tccgcggggc acccctcacc acacacccag tgggtgccat 240
caaccagctg ggacctgacc tgcctccagc cacagctcca gcacccagta ccgaaggcc 300
tccagccccc aatctgcatg tgcctcctga gctcttctgt gaaccagag aggtccggcg 360
ggctccagtg ccagctaccc aacagggtat gctgggtggag agaccttgcc ccaagggaac 420
tcgag 425

```

<210> 729

<211> 137

<212> DNA

<213> Homo sapiens

<400> 729

```

gaattcggcc aagtatttct tcaaccagct gtttgagag gaagatgctg atcaagatgc 60
tgatcaagaa gtgtctcctg acagagctga cctgaggct gcttggaac caacagaggc 120
tgaagctaga gctcgag 137

```

<210> 730

<211> 196

<212> DNA

<213> Homo sapiens

<400> 730

```

gaattcggcg ccgcgtcgac cctgggcaac atagtggagc ccattctctaa agaaacaaac 60
aaaaaatcaa ttgtatttct agatactagc agcaaaacaa ttaaaaaatga aaattagcca 120
ggcgcggttg ctacgcctg taatggcagc actttgggag gccaaagggtg ttggatcacg 180
aggtcaggag ctcgag 196

```

<210> 731

<211> 439

<212> DNA

<213> Homo sapiens

<400> 731

```

gaattcggcc aaagaggcct acagaatgaa gctccggcta attgcatttg tcttaatect 60
ctggactgaa accctggcag accagagccc agggccaggc cccagtagc cagacgtggt 120
gtttctgtg gacagctccg attacctggg aattaagtcc tctccatttg tgagaacttt 180
tctcaacaga atgacagca gcctcccat agaggccaac aagtaccgcg tggccctggc 240
ccagtacagc gatgetctcc acaatgagtt ccagctgggc accttcaaga acaggaaacc 300
catgctgaac cacctgaaga agaacttcgg gttcatcggt ggctccctga agatagggaa 360
cgccctgcag gagctcacag gacctatttc tctgtcccca gaagtggag agacaagaaa 420
cagttccccc aaactcgag 439

```

<210> 732

<211> 259

<212> DNA

<213> Homo sapiens

<400> 732

```

gaattcggcc aaagaggcct acaggcttcc cgcaattaaa acatgtcctc tgatcattac 60
tgcccatgga gcggttctga gattgaagga tggcgccgcg taagcctgca ttggtgagag 120
gacccccaag ctctcgacag accctgagcc agtcttgtaa gcctttgttc tttcttgggg 180
ctatggccgc tcggcaactc tttgtggctt gctcatagat tagctgttct atcagaggcg 240
cagcttgctc tgactcgag                                     259

```

<210> 733

<211> 231

<212> DNA

<213> Homo sapiens

<400> 733

```

gaattcggcg ccgcgtcgac cgagtctgag tggctgaatt ctacacatct ctctagtccc 60
tctgaagccc cacctctgga gcgctgcctc tgatcaccac agccacagat gatctgagtt 120
cacagagcac atcctgtttg aatgccccat ttgaatcaca gcctattcct ctttttgagt 180
gttgggtgtg ccttaagtgc acagatggct ttaccaccgc tggacctcga g          231

```

<210> 734

<211> 352

<212> DNA

<213> Homo sapiens

<400> 734

```

gaattcggcc aaagaggcct aagtgattcg attcaacata gactacacga ttcattttat 60
cgaagagatg atgcctggga atttttgtgt gaaaggactt gaactgtttt cattgttcct 120
attcagagat attttggaaat tatatgactg gaatcttaaa ggtcctttgt ttgaagacag 180
ccctccctgc tgtccgagat ttcatttcat gccacgtttt gtaagatttc tccagatgg 240
aggcaaggaa gtgttatcca tgcaccagat cttctctac ctgctgcgct gcagcaaggc 300
tctggtgccc gaggaggaga ttgccaacat gctccagtgg gaggagctcg ag          352

```

<210> 735

<211> 241

<212> DNA

<213> Homo sapiens

<400> 735

```

gaattcggcg ccgcgtcgac gtctgcaccc cttctctcat cgtctcccgg aggtcctggt 60
gggcccgaag gaccaggggc acccctgtgg cccttctcgc ctggcaaccc agccaggccg 120
tcgaaacccc ggtaaccctt ggggccagtt tgtccaggca ttctcttggc tccatcactc 180
ccagcccgac cccgtcttcc gggcttccc gcccgaaccag gcgggccttg cacacctcga 240
g                                     241

```

<210> 736

<211> 465

<212> DNA

<213> Homo sapiens

<400> 736

```

gaattcggcc aaagagccta gggagggttg tttcctgacg ggaggtaggg ggactgctga 60
ggataaccag gaccaggggt tcggccccc actaaggggg accctggacc agagtactag 120
ttggagccgt acgatagcca ggctggggcg ggccactcct ctgtggagac caagagtaac 180
ccaccatggc cctgggtcct gcatgaggtg atgggtaagg acccagaggc ccaccatagg 240
aggaaaggctg ggccaccaca gggaaagggg ctggctgcag ggtccctgg gctgtcgggc 300
ccacaggcaa gcttggggat gggctgtagg gcaaagggtg gggaggtcact acagagggct 360
gtggaggctg ttcttcagtc tcaggcggtg tcgcctgggg tactgggcgt ggggggtggcg 420
ggcgcttttg agggacatct ccagccagct ccggcaaagc tcgag                                     465

```

<210> 737

<211> 509

<212> DNA

<213> Homo sapiens

<400> 737

```

gaattcgcgg ccgcgtcgac caaccgtcaa aatgtccaaa gaacctctca ttctctggct 60
gatgattgag ttttgggtggc tttaacctgac accagtcact tcagagactg ttgtgacgga 120
ggttttgggt caccgggtga ctttgccctg tctgtactca tcctggctctc acaacaggca 180
acagcatgtg ctgggggaaa gaccagtgcc cctactccgg ttgcaaggag gcgctcatcc 240
gcactgatgg aatgaggggtg acctcaagaa agtcagcaaa atatagactt caggggacta 300
tcccgagagg tgatgtctcc ttgaccatct taaacccag tgaagtgac agcgggtgtg 360
actgctgccg catagaagtg cctggctggg tcaacgatgt aaagataaac gtgcgcctga 420
atctacagag agcctcaaca accacgcaca gaacagcaac caccaccaca cgcagaacaa 480
caacaacaag cccaccacc accctctgag

```

509

<210> 738

<211> 343

<212> DNA

<213> Homo sapiens

<400> 738

```

gaattcgcgg ccgcgtcgac gagctgggtg gtgggtgtgg agttggctgt gaataatgaa 60
ctgcagccaa tcatttgcct tggcacattc tctaaggtaa gatatgctta gtttcatatt 120
gtgtagcctg cagaactgca ccactaatgc ccattggctg ctagattcac tggataacct 180
ctttatttcc tgttgctgaa tgctgttcca tgtaccttct tctaagagaa caagcaattc 240
ttctgtgggt gtcttttccac catcagctag ttttagatgt ttttcggcta cagactctct 300
gataaagctg tactgagcga ttgaattcta gacctgcctc gag

```

343

<210> 739

<211> 106

<212> DNA

<213> Homo sapiens

<400> 739

```

gaattcgcgg ccgcgtcgac aggggttggg tgtttttttt cttcttttct tttaaataaa 60
aatgtgcaa ggtttccgcc tctgcgttcc cgttgtgctg ctcgag

```

106

<210> 740

<211> 479

<212> DNA

<213> Homo sapiens

<400> 740

```

gaattcgcgg ccgcgtcgac cgggaaacca aaatggcgag gggctgtatt gaagtgggct 60
gtgtttgagg ccggtgtaag aacgctcatt ctaccccaaa cccttgtctc caaggacctc 120
ggttttgcgc tgcataatgt ccgggtaccc ggtggggcgg gtgcccagta agtgctcgga 180
ctcgcagggg aagcgcgccac ggggacggat tgggtgtttt ttctgtatg aagcgggttg 240
caccactgaa gtgaccgaat gaggtgagag accttggcct gggaaaccgac tcttcgggag 300
gagatggggg ttggggggaag gaggaagaaa gaaagcaagt ataaaaggga aagatggagg 360
accaaggttg ggggtggggc tcctgtatgt ggggtgcctt gcatttatgt gtatatgaa 420
aagaatggat gaagaggagt agtcagttga gtgttgggag aaaaatgaga ctactcgag 479

```

<210> 741

<211> 195

<212> DNA

<213> Homo sapiens

<400> 741

```

gaattcgcgg ccgcgtcgac gtgtcctttt ctctaaaaat aagtacagat cacattcctg 60
ttttcgaaaa tgataggcaa aagttgggga acattacatg atatccaaaa cacgtttatt 120
ctatatctgt gtttcagatt tcattcttca gaccttgggt tacgagttac tgtgctaact 180

```

ccacaaactc tcgag

195

<210> 742

<211> 592

<212> DNA

<213> Homo sapiens

<400> 742

```

gaattcgcg cgcgctcgac cccattggct gaagatgaga ccattcttcc tcttgtgttt 60
tgccctgcct ggccctcctgc atgcccaaca agcctgctcc cgtggggcct gctatccacc 120
tggtggggac ctgcttgggt ggaggaccgc gtttctccga gcttcatcta cctgtggact 180
gaccaagcct gagacctact gcacccagta tggcgagtgg cagatgaaat gctgcaagtg 240
tgactccagg cagcctcaca actactacag tcaccgagta gagaatgtgg cttcacccctc 300
cgcccccatg cgctgggtggc agtcccagaa tgatgtgaac cctgtctctc tgcagctgga 360
cctggacagg agattccagc ttcaagaagt catgatggag ttccaggggc ccatgccgcg 420
cgccatgggtg attgagcgct cctcagactt cggtaagacc gggggagtgt accagtacct 480
ggctgcggac tgcacctcca ccttccctcg ggctccgcag ggtcggcctc agagctggca 540
ggatgttcgg tgccagtccc tgccctcagag gcctaattgca caccaactcg ag 592

```

<210> 743

<211> 367

<212> DNA

<213> Homo sapiens

<400> 743

```

gaattcgcg cgcgctcgac gtgaccttgg ataaattcct taagtctctt ggtgtttctt 60
catctttttt taaataatag ctttattgaa gtatacagtc atgttgagaa atgcgctcatt 120
agacaatttc gtacatgcgt gagcatcaca gagtatactt atattaaccg agagggtataa 180
cctacccac acctaggcta tatgatatag tctattgctg ctagtctgca aacatgtgca 240
gcatgttact gtactgaata ctgtaggcaa ttgtagtaca atgggtatttg tttatctgaa 300
catatctaaa ctaacaaaag tacagaaaaa tgtgatataa cagattttta aaaggtacgc 360
gctcgag 367

```

<210> 744

<211> 655

<212> DNA

<213> Homo sapiens

<400> 744

```

gaattcgcg cgcgctcgac tccaaatgag aaaaaagtgg aaaatgggag gcatgaaata 60
catctttttc ttgttgttct ttcttttgcct agaaggaggc aaaacagagc aagtaaaaca 120
ttcagagaca tattgcatgt ttcaagacaa gaagtacaga gtgggtgaga gatggcatcc 180
ttacctggaa ccttatgggt tggtttactg cgtgaactgc atctgctcag agaattgggaa 240
tgtgctttgc agccgagtca gatgtccaaa tgcttcattgc ctttctctcg tgcataattcc 300
tcattctgtc tgccctcgtc gcccagaaga ctccctaccc ccagtgaaca ataaggtgac 360
cagcaagtct tgcgagtaca atgggacaac ttaccaacat ggagagctgt tgcgtagctga 420
agggtctctt cagaatcggc aacccaatca atgcaccagc tgcagctgtt cggaggggaa 480
cgtgtattgt ggtctcaaga cttgccccaa attaacctgt gccttcccag tctctgttcc 540
agattcctgc tgcgggttat gcagaggaga tggagaactg tcatgggaac attctgatgg 600
tgatatcttc cgccaacctg ccaacagaga agcaagacat tcttaccac tcgag 655

```

<210> 745

<211> 268

<212> DNA

<213> Homo sapiens

<400> 745

```

gaattcgcg cgcgctcgac cattgtcaaa cttgaccttt taaataatct gatttaactc 60
ctttttaatt taaatcctgt ttttaattcat gacactggaa gctatatata taataacctt 120
tttttcattt tttagtgtga caactagtgg ttggaagagc cagggccgctc tgtcagtagg 180

```

aagtaatcgt gatcgagaga tcagcatgtc tgttggctcg ggaagatcac aattagattc 240
 taaaggagga gtatgtggag ttctcgag 268

<210> 746
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 746
 gaattcgcgg ccgcgtcgac ataagttaaa gatgtatagc gtgtataata ccttactata 60
 ccttatcata gtgattcacc ttaccatagt gaaccttaaa atagtatact tctggccagg 120
 cgcggtggct tacgcctgta atccaacac tttgggaggc agaggtgggc cgaacctcga 180
 g 181

<210> 747
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (35)

<400> 747
 gaattcgcgg ccgcgtcgac ataaaaagaa aagtnagggg ggtattgaaa tcgttaaaga 60
 gaaaaacaact aggagcaagt caaaggagag gaaaaaatct aaaagcccat ccaaagaag 120
 taagtctcaa gatcaagcaa ggaaatcaaa atccccctacc cttagaaggc gatctcaaga 180
 gaaaattgggt aaggccagat ctctactga tgataagggt aaaattgaag ataaaagtaa 240
 atcaaaagat aggaaaaaat cccaattat aaatgaaagt agaagtcgcg atcgaggtaa 300
 aaaatccaga tccccagttg atttaagagg taaatccaaa gacagaaggt cacgggtccaa 360
 agagagaaaa tcaaaacggt ctgaaactga taaagaaaaa aagccaatta aatctccctc 420
 taaagatgct tcattctggga aagaaaatag gtcaccacgc agaagacctg gtcgtagtcc 480
 taaaagaaga agtttgtctc caaaaccacg tgataaatca agaagaagca ggtctccact 540
 tttgaatgat agaagatcta agcagagcaa atccccctcg cggacactgt ctctggggag 600
 aagagccaag agccgatcct tagaaagaaa acgacgagaa ccagagagga gacgactttc 660
 ttctccaaga tccctttaag aacacgacct cgag 694

<210> 748
 <211> 714
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (672)

<400> 748
 gaattcgcgg ccgcgtcgac cataaagtta attctcataa tttttgctgg gtttaataat 60
 tcaaaatatg aatcaaaatt tttatttatg cagtttccatt ctattaaaat tatctgctaa 120
 attaatatta agtagtccta tagcatatat tatttaataa ttgcaagtag tgacatatca 180
 taaataaact gtataatatg tattattgat tctgttattt tatttttctt agcaatgcac 240
 aggggaaccag taaatttcac aagcagagaa tactaacttg tcatttattt aatattctaa 300
 acaaatgaag ccgcctctat aagtgaattt tctggacttc taaagatgag cattgttgag 360
 ttttaataact caaattttta ttgtgttaag taaagtatat taaatataac ctccacctaa 420
 tgactcagct gtaattaaaa aagaattcac gaccagcctg ggtaacacgg tgagacccca 480
 tctctacaaa aataaaaaat aaaaatgaaa attaaaaaaa attagccagg catggtggca 540
 tatacccaag tactctgaag gccgagggcg gaggattgct caaacctagg agtccaaggc 600
 tgtagtgaac tgtgatagtg ccactgtact ccagcctggg aaacagagca agaccctgtc 660
 tcttaaaaaa cnacaacaaa cctacacatg aaaattattg ctgcttccct cgag 714

<210> 749
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (25)

<220>
 <221> unsure
 <222> (230)

<400> 749
 gaattcgcgg cgcgctcgac gtgtngggaga aaaaactgct gagaagccaa agaaactgcc 60
 accacagggg agacagagtt tgttggttcaa atcccaccaa gtagaggagg gcttggtaaa 120
 caccctgggt tttccactga aacttcaaaa agatgggttca tgcttttagaa gtaaagattg 180
 agtttaaat aaggacagaa aaatattgat tggatttgcc tttttgaccn actcaggaac 240
 aatttcgggt taggaatggg tatgggagag agagagaaga gcaggctaac gaaatagcaa 300
 acaactcttg agagagtctg ttgtatggag aaatagggtt gtatttggaat ggggaagttt 360
 tgtttcttag gatggaagac actagagcaa gtctgtttt tggtttttt ttgagatgga 420
 gttttgcttt gttgccagg ctggtgtgca gtggtgcaat ctcgag 466

<210> 750
 <211> 602
 <212> DNA
 <213> Homo sapiens

<400> 750
 gaattcgcgg cgcgctcgac agtaacactt aactcttcta taagtaatag aatctattta 60
 gttttgaaga gtagtgata gattgcaagc tcattaccta gtttcaactt caaccagaac 120
 tgggaagaaat attaagtggg acaattacac taaaaatatg caaagtatac attttaagta 180
 ttttatgttc cagaacagct gccacatgtg atactataat caatctaata gaaataaaag 240
 tccacctctt cttagaacat aggttctcca ctggaggcag ttttgctccc caggggggatg 300
 ttgacaatgt ctggacacat ttttggtttt cacagcgggg ggagagaggg actgtgtgcc 360
 attggcctct agtgataga ggcgggggat gttgctaaac atcctacaat gcagagaatc 420
 acccactgac gacaatgaat ttttctgtcc aaaacgttaa cagtaccaag attttggaac 480
 cctaccttaa gagtatacat aaggtaatgc ttttctaaaa ggtctgtgtt agagttgcat 540
 atgtatccag caacatgtga gccctaggac agggccttgc ccataatacc cctcactcg 600
 ag 602

<210> 751
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 751
 gaattcgcgg cgcgctcgac gattaaagga tttacctgaa gagaaagcat tctattcattc 60
 agagactgga caagagttaa tcttgcatat ggcaattaaa gatgatgttt ccatggaaac 120
 agttgatcct gctttcattc attggctgct taggaggtga gcttctctta caaggccctg 180
 tattttatcaa agaaccagc aacagcattt tccctgttg ttcagaagat aaaaaataa 240
 ctttgcatgt tgaagcaaga ggcaatccat caccctatta cagatggcag ctgaatggaa 300
 gtgatattga tatgagtatg gaacatcggt ataagttgaa tggaggactc gag 353

<210> 752
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 752

```

gaattcgcg cgcgctcgac ggggcaggg taaattcgta aaaataaaag aaatctttat 60
taaaacccaaa tggcatggaa attttttaga gaattctcat agttatacta aacctgagga 120
aaaataacat aatattgact gtttaaagag aactctgttt tcaagcctgt aaaactaatt 180
gatataattt tctacctaga atttagatat tatgaaattt ttttttggtta ttgttttttt 240
ctttaggatc acagtatcac tcgag                                     265

```

<210> 753

<211> 589

<212> DNA

<213> Homo sapiens

<400> 753

```

gaattcgcg cgcgctcgac cactttacct gtctgtaaga tggacatggt taggtctacc 60
catgagggct atgtggggat tggagaaaat ggaagtaaag aactagtcca gagccaccct 120
tggtgaaaag ccactgtcat catcatttac catcgtcatt ctccatccca gccatccacc 180
caccaccgc cagcgtgctc ttctctgtg accgatgtct cccgtgtagc catgaacctg 240
catgctcagg atcgagacga cggtttggga agaggggtgcg tgactgcctg gtgggactgc 300
atgtcagctt cccatgaagg ggcaccttg gtgagctcac tgttttctaa cggcatctgg 360
cattttctcc ttcccatctt gaccatgtca gttatcacca tctacacga ctgctcactt 420
catttaaaaa aaccagttt gctttttttt aaacctttta tgtattctaa gtgatagaag 480
gtatggctt ggtctacgat atgtttttta tttttcttga aatacataaa tattaataa 540
aaattgtgct atgttttcaa ctaagatcat cttgaatctc accctcgag 589

```

<210> 754

<211> 360

<212> DNA

<213> Homo sapiens

<400> 754

```

gaattcgcg cgcgctcgac taagtacagc aaaaaagaaa gggggggaag aaaagaagaa 60
ggaagaggaa agggaggagg aggatttacc attcacttac actagaaaca gtgaaaatag 120
ataatagcta taatttactc acatcttacc taaaacacaa attcagggta atttatgagc 180
aagtcatttt cgggtgggct ttcgatagtg tgtgaatttg gaatgaatgc tggtaacttc 240
agtcctcttc cacctgcagc accagggaag cattgttgtg gggaggccac caacttggct 300
ggcatgttgc ttctgcctca gttagtgatg atgggtgattt ggagagaaag gacactcgag 360

```

<210> 755

<211> 536

<212> DNA

<213> Homo sapiens

<400> 755

```

gaattcgcg cgcgctcgac gttgggatat ggggtggttg actaaagaat ggttccttct 60
tctaattcgc caaatttttc atccagatta tggcatgttt acatatcaca aggattcaca 120
ctgccattgg tttagcagct ttaaattgtga taactattct gaattccgat tggttggaat 180
tcttatggga ctagctgttt ataacagcat caccttggat attcgtttcc ctccctgctg 240
ttacaagaaa ttattgagcc ctcccatcat tctagtgtat caaaatatac cagtaggcac 300
ctgcaatgtt accgtggagc acttatgtca aattatgcct gagttggccc atggattaag 360
tgaactctta tcacatgaag gcaatgtcga agaagatttc gattcaacat ttcaggtttt 420
tcaagaagaa tttggaacaa tcaagtctta taatttaaag cccggtgggt ataaaaattc 480
agttaccaat caaaatagaa aagaatatgt acagctttat accgactttc ctcgag 536

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<210> 756

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (192)

<400> 756
 gaattcgcg cgcgctcgac cgaagggtgga ggtggaagac cagggatgca cagctcagaa 60
 ggcaccaccc gtgggtgggg gaagatgtcc cccacacca actgctatgc ccagcgctac 120
 taccccatgc cagaagagcc cttctgcaca gaactcaacg ctgaggagca ggcctgaag 180
 gagaagggaag gngaagggaa gctggacca gctgaccac gccgaaaagg tggccttgta 240
 ccggctccag ttcaatgaga cttttgcgga gatgaaccgt cgctccaatg agtgggaagac 300
 agtgatgggt tgtgtcttct ttttcattgg attcgcagct ctggtgattt ggtggcagcg 360
 ggtctacgta tttctccaa agctcgag 388

<210> 757
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 757
 gaattcgcg cgcgctcgac cttagcactt caatttaaaa acatagaggt ggaattttta 60
 atgtattttt gagttgactt tggcaggctg aaagaaagta aattaaaaaa aaaacaaaa 120
 acctagagct gttgctctcg gagataagct ctgggaaaac ttatcttagt acctcatgct 180
 atttttaaaa cagtacattt tttttgtcca gctgataccc ttctgtgagg agttgaattt 240
 gaagaccact gggctcgag 259

<210> 758
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 758
 gaattcgcg cgcgctcgac gtcaccacgc ccagcccaag aaagatacat ttttaaaaac 60
 agctttattt tgggtataatt gacgtaaaat gtacatactt aaagtataca gtgtgatgtt 120
 ttgatataata tgtatactct tgaaaccacc accacagtta aaataatgaa aatgtccatt 180
 acctccagaa gtttcttcat gttttgttgt aatctctctt tctctctctt gattcctccc 240
 catccccagg cactcgag 258

<210> 759
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 759
 gaattcgcg cgcgctcgac agtatttaca gtttgactga cattgcttgg ctgcccataa 60
 taaagtgttt tgcttgggtg ctattgaatg ctttttaact tagtttttag acaattttgc 120
 aggccttatt taagcatgtt gtatttttga ctgaggcaag tctttgcgga actcgag 177

<210> 760
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 760
 gaattcgcg cgcgctcgac tgtaaatctt gtaattaatg gtcaaactgt ataaagggat 60
 tggtagtcaa aacatgtaca aagaaatacc tgtaaaactg ttttgtctca tgttttattg 120
 gaccaaagtt gtggtttgta tggagtgtag tagtagtgga ctcgag 166

<210> 761
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 761
 gaattcgcg cgcgctcgac accaaatcac gggactgttc agcaciaaaga aactgaactt 60

gccaatgttt acagttctga gaaggttctc catcctgttt acaatgtttg ctgaaggagt 120
 ttactcaag aagacttttt ctgggggtat taaaatgact gtatttgcaa tgattattgg 180
 agcctttgta gctgccagct cctcgag 208

<210> 762
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 762
 gaattcgcgg ccgcgtcgac aaacatactt gtttttaact ctcaggaatt tcatgaggaa 60
 caagtttaag ttttatatat atctatgtat gcttttcata aaccacaaat aagtttatac 120
 acttttagctg gaacttttta taatttcaga ggggttattg aactgactgt tggcattgga 180
 tataagaatt tggttcagg catttgctat tgagggttta aaaatgttta aatatcttac 240
 tgtaattttt ttgttttggt atttgggaca atgcagctgt aatctcgag 289

<210> 763
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 763
 gaattcgcgg ccgcgtcgac gaacagtttag tagtagggct aagatttggt ttcagatttt 60
 atttccaact agaaaagacca ttttaacact gttttgggta ttgtttgtag agagctttct 120
 aaataagtgg gtacctttat tatgattaag aaagtaattg actatttggt aggatttcat 180
 acagaattat tgataagcac gctcgag 207

<210> 764
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 764
 gaattcgcgg ccgcgtcgac gagaaggagg ggaacaagca gagactttta ctgggacaag 60
 taaatcaagc cttcagcaac tcaaggaaca aacatacaag acaagctcaa ctctcgta 120
 agaccaaatt aggataacac tacaagaaaa taaattgttt tatctggttg tgggtctttg 180
 gggatagtta attgactact caaataacaa ctttgatagt atatgaactg tgactgtgtt 240
 agtaggtttt aattagcagg aactttttgt aaattggaca aaaacttttt ttattatgac 300
 taggaaaact gctgttttct atttttggtt tgctctttta aataataaccg aactcgag 358

<210> 765
 <211> 178
 <212> DNA
 <213> Homo sapiens

<400> 765
 gaattcgcgg ccgcgtcgac ctactgtttt ctgtgttata ctttgtgtta gtgcagagtg 60
 tttggtgtaa ctggctatcc ttttggaatc tttttgttat ttaataattt ttaattgttt 120
 acacattttt agaaagtatt cgtttccgta taggatgatt gtatgggtct ttctcgag 178

<210> 766
 <211> 103
 <212> DNA
 <213> Homo sapiens

<400> 766
 gaattcgcgg ccgcgtcgac ttgaattcta gacctgcctc gagttgccta ctgatttcaa 60
 gtattacatg aagcttgtaa aaataacaag cagttacctc gag 103

<210> 767
 <211> 407

<212> DNA

<213> Homo sapiens

<400> 767

```

gaattcgcg cgcgctcgac ggcaagtctt aaaaactcga tttttatttt tatttgtatt 60
tactttattt gtttatttat ttgagacaga gcaagactcc gtctcaaaaa aaaagcaaaa 120
caaaaaaaca aacaaaaaca aaagagggtgc aggccagaat tgtccccgtg gacatagtgt 180
gtcaattaga ttgcatactt taatccagcc tcagttggtg tgtctgggtt ttctggctag 240
gaagaatgct gctgtggaat gtgctggaac agatccttac gtgcgctgtg ttggagtctt 300
tccaggtcag ggtttctcaa acggatttca ggacccttta catcatccag aatgatccaa 360
tagccccagg agcctgtgtc tgtgtggatt atatctgcgc gctcgag 407

```

<210> 768

<211> 268

<212> DNA

<213> Homo sapiens

<400> 768

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gaattcgcg cgcgctcgac gttcattgag gtttaagaga ataaaagaaa ccaaaaaaga 60
acttcacaat tctccaaaa caatgaacaa aacaaaccaa gtgtatgcag caaatgagga 120
tcataactct cagtttattg atgattattc atcctcagat gagagtatat ccgtcagcca 180
cttcagtttc tctaaacaga gccacagacc aagaactata agagacagaa ctagtttttc 240
ttcaaaattg cctagccata aactcgag 268

```

<210> 769

<211> 372

<212> DNA

<213> Homo sapiens

<400> 769

```

gaattcgcg cgcgctcgac aaattactta taaatttttt atagtgtgat ttttgacctg 60
ccttttatat gtatgaatat ttcatagttt tgcataatcag atgtaggcat acagacaaat 120
acataaacca atgaatatat tacatattct gtgttccaat aaaactttat ttatggacac 180
taaaatttga atttcataaa attttcccat gtcaagaata caaaataactt gagttttgtt 240
tttagctatt taataatagg tctcatttat tccacaggct gtagtttgta gtcttgcttg 300
aaacaataga aacagactga ttaagcagga gaagtttttt gaaagaattt tgtttggctc 360
agcaatctcg ag 372

```

<210> 770

<211> 126

<212> DNA

<213> Homo sapiens

<400> 770

```

gaattcggcc aaagaggcct agggggtaat ttacatatgg ggtgtatata ttctaaaaat 60
agtaataaaa gtacctttta taagcaatgt tgtgtggctt gtagaagaaa gcaggaggga 120
ctcgag 126

```

<210> 771

<211> 311

<212> DNA

<213> Homo sapiens

<400> 771

```

gaattcggcc aaagaggcct agtagaactc aagaagacag actaccaagg gtcacttgaa 60
gtcgtgattg ggtcactaat aacaccagga caaagttaag ggatcactac tcaagcataa 120
gccccagttt tcataagact gctgtgaaga tgtttgatat aaaggcttgg gctgagtatg 180
ttgtggaatg ggctgcaaag gaccctatg gcttccctac aaccgttatt ttggccctta 240
ctccactgtt cctagcaagt gctgtactgt cttggaaatt ggccaagatg attgaggccg 300
ggaaactcga g 311

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<210> 772
<211> 185
<212> DNA
<213> Homo sapiens

<400> 772
gaattcggcc aaagaggcct aaagtcaaga acagtttttc actgcagctt ttagatatat 60
tttggtcata tactgtttac acaattgcc aattcttgcca aatttggtgt tgtgcatttt 120
attttctctc tttaatgtac tgctctgcaa ttatgcttgt aaaatgtttt tctgtttcac 180
tcgag 185

<210> 773
<211> 262
<212> DNA
<213> Homo sapiens

<400> 773
gaattcggcc aaagaggcct atgggtgaccc agccagataa tagtatcttg agcaataat 60
agtatcttga gtgcaataaa gcaggaagac tgctcttcaa aaaatgtggg gttacatgat 120
tttcagagcc tttttttcag agttgagcat cttttctttt aaaagaaata aggggcaaga 180
ggaccaattt tattcttga ggaaaaatga cacacccttc tcccaaaaga aagaaaactc 240
tctggccccc ccccttctcg ag 262

<210> 774
<211> 430
<212> DNA
<213> Homo sapiens

<400> 774
gaattcggcc aaagaggcct acacagactc ttgcaagctg gatgccctct gtggatgaaa 60
gatgtatcat ggaatgaacc cgagcaatgg agatggattt cttaggcagc agcagcagca 120
gcagcaacct cagtcctccc agagactctt ggccgtgatc ctgtgggttc agctggcgct 180
gtgcttgggc cctgcacagc tcacggggcg gttcgtatgac cttcaagtgt gtgctgacct 240
cggcattccc gagaatggct tcaggacccc cagcggaggg gttttctttg aaggctctgt 300
agcccgattt cactgccaaag acggattcaa gctgaagggc gctacaaaga gactgtgttt 360
gaagcatttt aatggaaccc taggctggat cccaagtgat aattccatct gtgtgcaaga 420
agatctcgag 430

<210> 775
<211> 223
<212> DNA
<213> Homo sapiens

<400> 775
gaattcggcc aaagaggcct atagagacat gaagaggctt gaagaaaagg acaaggaaag 60
aaaaaacgta aagggtattc gagatgacat tgaagaggaa gatgaccaag aagcttattt 120
tcgatacatg gcagaaaacc caactgctgg tgtggttcag gaggaagagg aagacaatct 180
agaatatgat agtgacggaa atccaattgc agttctccct ata 223

<210> 776
<211> 243
<212> DNA
<213> Homo sapiens

<400> 776
gaattcggcc aaagaggcct aaagattcga acaatgagtt taccagctct gagaaaaatg 60
aactgctcca gaaccttcaa gaatgtttct ctgtatcacg cccacatcac accgaatcca 120
tttgctgtca ttgcagagtt catctttctg gttttgagca ccatctcaca cagttctttg 180
tctttttcca gtctgtgtgt gactgggtta gctcagcccg aaagggtgcc cactccctc 240
gag 243

<210> 777
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 777
 gaattcggcc aaagaggcct agagcaagga ggtactctga gagctctggt ttgcagaaag 60
 agagaaaaga caggatagat gaagagtagc caaaactccg tagaactggg gggagttact 120
 gagcagacag gatggcatca cagagtgtgc catggtgggg taggagggcg gccaacaggg 180
 acagaggagg gtcctctgcc agggagagaa acagagggaa ttggggggaa accagttgca 240
 gatctcgag 249

<210> 778
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 778
 gaattcggcc aaagaggcct acaaaaacca caaaagtgtc tacaagtctc ctggcatatc 60
 tctatatttca gacactgaat ctgcagtagc aacctgtttt ctccaccagc ctagggttca 120
 taatcttata tgcttgcacg gaccagaaa taaatcagag tacagcccca cctgggccac 180
 tatctatagg acaaacacgt ccttccacct gcatttcact ctctccaacc cagggacttt 240
 gttttctttt aacttttatt tttggttggg tcaggggtat actcgag 287

<210> 779
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 779
 gaattcggcc aaagaggcct actttcataa atagaatttt catttttata aaattcaatt 60
 tataattttt tatggtttct ctttattaat cccattttaag aaatctttgt gccatgatta 120
 tgaagatgca ctctaattgt tttttccaga agctctgtag gtttagcttt tacctttctg 180
 gggttggttt gttttgtttt tttgagatgg agtcccactc gtgtcaccca ggetggagta 240
 caatgggtgca atctcggttc actgcaacct ccacctcccg ggttcaagca attccctctg 300
 ctccacctct cgag 314

<210> 780
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 780
 gaattcggcg ccgcgtcgac cggagcagcg cctattagtg tcatcctcac cgtaacggcc 60
 ggcgcctcct cctggattca ttcactcgct cttttcattc acgaaggtag tgaggcctag 120
 tggaaagcca tggagagcgc tctcccgccc gccggcttcc tgtactgggt cggcgcgggc 180
 accgtggcct acctagccct gcgatattcg tactcgctct tcacggccct cggggtctgg 240
 ggagtgggga atgaggcggg ggtcgccccc gggctcggag agtgggcagt tgtcacaggt 300
 agtactgatg gaattggaaa atcatatgca gaagagttag caaagcatgg aatgaaggtt 360
 gtccttatca gcagatcaaa ggataaactt gaccagggtt ccagtgaat aaaagaaaaa 420
 ttcaaagtgg agacaagaac cattgtctgt gactttgcat cagaagatat ttatgataaa 480
 attaaaacag gcactactcg ag 502

<210> 781
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 781
 gaattcggcc aaagaggcct agagagagag agagagctat taataaaaca gaggagtaca 60

ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat accaacattc 120
agtc aaatcc caaagccaaa tggataattt cagatggaaat ggagttagac aggaactggc 180
ttccctttct cctgttacta tgaggacaac cctcgag 217

<210> 782
<211> 219
<212> DNA
<213> Homo sapiens

<400> 782
gaattcggcc aaagaggcct aggaatcatt gcttactggg tagagaattt ctgttcggga 60
tgaaaatttt tagaaacaga tagtggcaat agttatataa cagtgtgaat gtaattaatg 120
ccactgaact gtacagttaa aaatgggttaa catggcaaac ttatatctat ttgccacaa 180
ttaacaacaa caaaaaaacg atgggctatt agactcgag 219

<210> 783
<211> 257
<212> DNA
<213> Homo sapiens

<400> 783
gaattcggcc aaagaggcct aggggagcgt tgtgttccat gctgctgtcc aggcacccag 60
cggcatgagt agcctatgca acctttagag caaggcggtc gcggcttcgc atcccaacat 120
gggcactgta tgatgtcccg catcaggcctt tcttatgtct gcctggagac cctaattatg 180
ggcggcataa tttgtccttg acggtctcat gcattttctg ggctgaatat ccggcaagca 240
ccagggttta gctcgag 257

<210> 784
<211> 218
<212> DNA
<213> Homo sapiens

<400> 784
gaattcggcc aaagaggcct attggaaaat agctgtgctg tcagcttttt gaggggggga 60
tttgttttgg tcagtcagtt ttatcataaa tttggcattt ggggttaaac agcaacatgg 120
aacaataat ttttagatgt tggaaattcc tggttttttt tgttttggtt tgttttggtt 180
ttttgagaca gcgtctttgt cacctgggag ttctcgag 218

<210> 785
<211> 197
<212> DNA
<213> Homo sapiens

<400> 785
gaattcggcc aaagaggcct acttgttcca gcgagttgac tataattttt tctacctgt 60
tatctacctc tagctccatt gaacatcttc cttctgttaa gtgatagcca taagttctta 120
gtagcgaaat tattggatca aagagtagga caatttttat ggcactttta atgtgtgttt 180
tcaggcattg cctcgag 197

<210> 786
<211> 125
<212> DNA
<213> Homo sapiens

<400> 786
gaattcggcc aaagaggcct agtgcaca aaatttaaat ttttctcatt aggattcaga 60
tttcagatta ggcaaacagt ttggttgatt ctgtgatgta tgtaaagggtt ggaagggttc 120
tcgag 125

<210> 787
<211> 204

<212> DNA

<213> Homo sapiens

<400> 787

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gaattcggcc aaagaggcct agtgattata aaattccatt tgattctttg tttttctcaa 60
attgcataag cagttagtag gaagaagatg atgaaccaca ggaggagtag tcagaagggg 120
agaagaacga gaaaagtaat gtcacagact gtgagggaaa attatccaca aagatgggat 180
gttacagtgc cagatgagct cgag                                     204

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<210> 788

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (18)

<220>

<221> unsure

<222> (181)

<400> 788

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gaattcgggc aaagaggcct accccagctg atcttgaact ccagagctca agtgatcctc 60
ctgtcttgcc cttccaaagt gcttgaatta caggcatggg ccacagtgcc cagctgggaa 120
tgatttttag acagcaatct tagtgctttg ttaatttttg ctttgcattt taaacatgct 180
ntctctgttt ttttcattcc ctttaccatt tataattttc ttcattattt cactatgaac 240
taatgtaaac acaaaacatg ttcattcctt gaatgtaage tacacactta aacctttttt 300
gatacacctc ccagtttata tgatgccata tgaaaaaact tggatttata tccagattcc 360
tccatatctt gtctttctgt ggatggctca taaagtgtgc gtgtatgtgt gttgtgtttg 420
ctagatacat tataattatt gttattttat tatttaaaga aaggatcttg ttctgttgca 480
gtggcatctc gag                                     493

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<210> 789

<211> 151

<212> DNA

<213> Homo sapiens

<400> 789

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gaattcggcc aaagaggcct acgattgaat tctagacctg cctcgagcta tgcgtttgta 60
tttcttgctc cagcctctga atgttatctt caagttgctt gactctgaac tcactctctt 120
cagactgccg cctcctgact tccccctcga g                                     151

```

<210> 790

<211> 360

<212> DNA

<213> Homo sapiens

<400> 790

```

gattggctgt tagctttgag ctacagagaga aaaatacatt tagaagtttt tattgtgttt 60
tctttagtta cggtagcgta gaataagggg acttaaaatt ggatcccttg aaattatatg 120
ttaattttta aaataagttt attaggtgga aggttctgta tcttttatca aaattgcaaa 180
ggagtctgtg aaataaaaaa tactcagctt agattctaca gtatttcaaa ctgtcttttt 240
ggattttttt tttgagacag tcttgcctct ttgccaggc tagaggacaa gtagtgcggt 300
cttgactcac tgcaacctcc gcctcccatg ctcaagctat tattctcatg cctactcgag 360

```

<210> 791

<211> 281

<212> DNA

<213> Homo sapiens

<400> 791

gaattcggcc aaagaggcct agagggatgg agagagagat gaaggaactg cagacccagt 60
 acgatgcact gaagaagcag atggagggtta tggaaatgga ggtgatggag gccctgtctca 120
 tccgggcagc ggagatcaac ggggaagtgg atgatgatga tgcagggtggc gagtggcggc 180
 tgaagtatga gcgggctgtg cgggaggtgg acttcaccaa gaaacggctc cagcaggagt 240
 ttgaggacaa gctggagggtg gagcagcatg agcaactcga g 281

<210> 792

<211> 279

<212> DNA

<213> Homo sapiens

<400> 792

gaattcggcc aaagaggcct acagggtgact cgaatgaact ctgcattttc aacgtgcctt 60
 ctactgcttc aggacctggg ggtcccccctg accctcactg gcttgccccc agccctgggc 120
 ctggcccccac ctgtctctgga gccagagacc cctggcctgg agctgcctct ctggggtggg 180
 tctcaggccc caccctctcc tcttttgagt tcagtgcctt gctcagcccc tccctgtat 240
 ctcagcgtct tgagacctct gacagagcga caactcgag 279

<210> 793

<211> 326

<212> DNA

<213> Homo sapiens

<400> 793

gaattcggcg ccgcgtcgac ctaaaccgtc gattgaattc aaggcctacc tgggaagaag 60
 taaaagagca actagaaaag gaaaagaaag gctccaaggc tttggctgaa tttgaagaaa 120
 aaatgaatga gaactggaag aaagaactgg aaaaacacag agagaaattg ttaagtggaa 180
 gtgagagctc atccaaaaaa agacagagaa agaaaaaaga aaagaagaaa tctggtaggt 240
 attcatcttc ttcttcatca agctctgatt cttccagcag ttcttctgat tctgaagatg 300
 aggataagaa acaaggaaaa ctcgag 326

<210> 794

<211> 239

<212> DNA

<213> Homo sapiens

<400> 794

gaattcggcg ccgcgtcgac gacaccatgg ccaagctcat tcttgtcaca ggtctggcaa 60
 ttcttctgaa cgtacagctg ggatcttctc accagctgat gtgctactat accagtggg 120
 ctaaggacag gccaatagaa gggagtctca aacctggtaa tattgacccc tgcctgtgta 180
 ctcacctgat ctatgccttt gctggaatgc agaataatga gatcacttac aactcgag 239

<210> 795

<211> 100

<212> DNA

<213> Homo sapiens

<400> 795

gaattcggcg ccgcgtcgac attgaattct agacctgcct cgagtgaagt acccaatgag 60
 gaacctaaag ttgcaacagc ttatagacc caagctcgag 100

<210> 796

<211> 714

<212> DNA

<213> Homo sapiens

<400> 796

gaattcggcg ccgcgtcgac ctagctagct aaaaaaatc cttggggtct ggagtcacat 60
 aaattatttt caatgcctgt tatttcactc ttgattttcc acaagatgac aagcctcttg 120

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gagataacctc cttgtatcta ctttccaggt tattagatac attattttcc caggtacatt 180
atagtttccc agatacatgt atagctttcc cagatacgtt atttttccat tatatagcaa 240
aattttacat ctgtggatta gaaattaaat ttcacaaagc acctaaagaaa gtcttaactg 300
ttctaaatct taagtgaata aagacctggc atgtgtttgt gttgtgtatg tctctctgtc 360
tctctgtgtg tgtgtgtgtg cgcgcgtgcg tgcgtgcgca ttggtatcag ttctgaaagt 420
gtatattggg gtctaagtta ggctcatgct ctcagaaatt tgatgcaaca tgcttgatt 480
atttgttca atagagagt taaaaagtac attatagtgc tttttggaa aagaaagaaa 540
agcttttcag tagtaacct acaatttgca ttgtatatgt taccttttgc ttctttttct 600
tacacacgta tacaaaagta cataatgata atggtatcat tattgttgtt tttgttaacc 660
ctcatggatc actgtttccc aggttctctg ctaagtacca tacatgctct cgag 714

```

<210> 797

<211> 180

<212> DNA

<213> Homo sapiens

<400> 797

```

gaattcgcgg ccgcgtcgac gagggagggt gtggtagttt gtgtttaata tttctagtta 60
agctggtgag agaagagagg aggaaagggt tcctaaggaa gtagatagct gagttgagtc 120
attagagata aataagagct aatgagaaaa tatgtgggca gtatagtgtt gggactcgag 180

```

<210> 798

<211> 165

<212> DNA

<213> Homo sapiens

<400> 798

```

gaattcgcgg ccgcgtcgac agggcatctt gatatgctgc tcagtctctg cctttctctc 60
ttccagatac actgtgcaga tgaagtcacc ggcattgctg gtcccactgg cagtgccagc 120
cacgcgcac tcacaaatgg cagtgtctct ccccgcgtgc tcgag 165

```

<210> 799

<211> 422

<212> DNA

<213> Homo sapiens

<400> 799

```

gaattcgcgg ccgcgtcgac gaattctttt taaattttat tctggttggg attggctggg 60
cttctgaaat cttgtggatt tttatctttc taagtgtggg aaaatttttt cagccatttt 120
cttaaaatac agcttttccc ctttctctct tcttccctga gactacattt aaatatatgt 180
tagactttct cactatattt acttctggtt tctttttgta tttaccaacc tttttctttt 240
gtttgttgaa acaaggcttg gctctgttgc ccaggctgga atgtagcggg atgatcgtgg 300
ttcactgcaa cctctgcttc ctgggctcaa tcgactctcc cactcagcc tcccaagtta 360
gctcgcata catgccacca ttcttggtta gtttttgtat cttttctaga gacagactcg 420
ag 422

```

<210> 800

<211> 329

<212> DNA

<213> Homo sapiens

<400> 800

```

gaattcgcgg ccgcgtcgac cccccaggct caagcaatcc tcccatttca gcctcccggtg 60
tagctgggac cacaggcatg tgccaccaca ccttgctaag ttttgttttt tgttggtttg 120
ttgtttttgt agagaaagggt ttttgccatg ttgtccagat tgggtctcaa ttcctggact 180
caagcaattt gccaccttg gcctctcaaa ccgctgggat tgcaagcatg aaccacctca 240
accagccata ttctgtttct attataaatg atgagattaa gcgttcagac tgctgtttgc 300
aaacagtttt cacaaatggt acactcgag 329

```

<210> 801

<211> 436
 <212> DNA
 <213> Homo sapiens

<400> 801
 gaattcgcgg ccgcgctcgac gtagaacagt gattactgga ggctgggagg aaagggaggt 60
 ggatatggag aggttggtta acagatacaa aattacggct agataaaagg aataagttct 120
 agtgtctgtg gcactgtagg gcgactagag ggtgtagtta acaatttact gtatatcttc 180
 aaatagctag aagacaggat ttctaacttc cccaacacaa agaaatgata aatgtttgag 240
 gtgattaccc tgatttgatc attacacact gtatacctat atcagaatat cacactgtac 300
 cccataaata tatacaatta cctatcagtt ttaataaat aaattttcaa aaaccacaat 360
 atttttttga atgagactct acctaaaatt ttattatggt ctctctttat ggccttcttt 420
 tgggaaaaca ctcgag 436

<210> 802
 <211> 725
 <212> DNA
 <213> Homo sapiens

<400> 802
 gaattcgcgg ccgcgctcgac atgcacttta gggttggttt tgcacttctg atagtatctt 60
 tcaaccacga tgttctgggc aagaatttga aatacaggat ttatgaggaa cagaggggtg 120
 gatcagtaat tgcaagacta tcagaggatg tggctgatgt ttatttgaag ctccctaate 180
 ctctactgt tgcatttga gccatgcaga ggggaaatc tcctctactt gtagttaacg 240
 aggataatgg ggaaatcagc ataggggcta caattgaccg tgaacaactg tgccagaaaa 300
 acttgaactg ttccatagag tttgatgtga tcaactctacc cacagagcat ctgcagcttt 360
 tccatattga agttgaagtg ctggatatta atgacaatc tccccagttt tcaagatctc 420
 tcatacctat tgagatatct gagagtgcag cagttgggac tgcattccc ctggacagt 480
 catttgatcc agatgttggg gaaaattccc tccacacata ctgcctctct gccaatgatt 540
 tttttaatat cgaggttcgg accaggactg atggagccaa gtatgcagaa ctcatagtgg 600
 tcagagagtt agatcgggag ctgaagtcaa ggtacgagct tcagctcact gcctcagaca 660
 tgggagttac tcagaggtct ggctcatcca tactaaaaat aagcatttca gactccaacc 720
 tcgag 725

<210> 803
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 803
 gaattcgcgg ccgcgctcgac ttctaaaatt ttatataaat agaatcatat agtaagtact 60
 tctgttgccct ggctcctatt actcagagta attgttgata ttatccatg gtgaagcatg 120
 tgtcagagtt tattcctttt tattgctaag cagtgttcca ttgtgtatct gttttactac 180
 agtttgtcca ttcacctgtt ggtggacctt gggttgttct tggttttggg ctctacacct 240
 agaagctcct atgaacattt gtgtacaagt ttgggtattg ttaaagttta actcgag 297

<210> 804
 <211> 701
 <212> DNA
 <213> Homo sapiens

<400> 804
 gaattcgcgg ccgcgctcgac aaaagggtta gtataagaaa atattgcaa cacattaata 60
 cagttgtatg gtgcaggaaa agaagattgg aaaaagacca aaacacactt ctccagcaac 120
 actccatcag ctttttaaaa tttagagcta tctgctaatt ttttccctct tctttctcaa 180
 taaatgaac aaacactggg cagctgcagg tttctcccaa tcatgtctct ttatgtaaaag 240
 acagtaacat gcaaacactt ttagtgtaca tccctcatc acagtgtaaa gcaggaaatg 300
 gtgtgggaga tgtgagacca ttctgaggtc agcgaagacc caaaggctct gcagtattcc 360
 ctccaatggc caaggattcc gtgtgtcatc tgcaggagtg agtaggctct ctgtatttct 420
 tgtaactgct ggggtgttaca aaataagtta caatgtttta cactttaaaa aaaaaacaga 480
 aggaacattt gctttattgg ttacttacta gtttagctct taggttatgg cacagcatgc 540

taaaaaatca tgtgttttaa agtaaatgtt ggtaaaatgc tggcatctgg tccatttgtg 600
 ttgatgcatt ttcacttctg tggatcatagg aaatggactg gtctaaagag agtgaggcac 660
 aacacaagca gggcattagt ttgaatagga agtctctcga g 701

<210> 805
 <211> 269
 <212> DNA
 <213> Homo sapiens

<400> 805
 gaattcgcgg ccgcgtcgac ccaaccgtcg attgaattct agacctgcac tccagcctgg 60
 gcgacagaac aagactccgt ctcgaaaaaa ataaaaataa ataaaaataa atatatatag 120
 tgtagtatca aaggaaaaca gcaaaacttt aaatatctgc tttgaaaatt aactgttttg 180
 taggttaaga gcacagtgtc gcagcttttg acttaacata attaatctag atgttagcca 240
 tacatacctt ttccatctgc cttctcgag 269

<210> 806
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 806
 gaattcgcgg ccgcgtcgac cgtcgattga attctagacc tgcctcgagt gttgtgtggc 60
 catgggggat aggaggttgg ctgttatcgg cctctgctcc tgtgggtttt actccttctt 120
 ggctacctg ctgctcttcc agtctccatt cccaccttt tctctctcgc gcagccactg 180
 tttgatgctg gactgcagga aatatgtcac cgatgcagga gtgtccaggc agtgttccca 240
 ccaacagtac actctcgag 259

<210> 807
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 807
 gaattcgcgg ccgcgtcgac ggacagggga ctgggcagaa aataatattg tagaaggtag 60
 aacagcattt ctttgggagg atttatcttt ttaagtatat agtgggtctt taccactatc 120
 ctacaacagg ttgcaggaca aataatgtat tttaatcttt gggggagtct ttgtgtaagt 180
 cagaccttat tcattttcat tccaacaacc ctcgag 216

<210> 808
 <211> 705
 <212> DNA
 <213> Homo sapiens

<400> 808
 gaattcgcgg ccgcgtcgac acctgcctct aaataaataa ataaataaat aaataaaaat 60
 aaaggcaaat ctgatcaagt catgctctgg gataaaagct ctaaaggctt caccctttgc 120
 tttaggagaa tgettgcgcc agcctggaag atccgggect tccccctccc ccaagccctt 180
 ctctcccagt ccacccttc cactgatctc ctcccacaga tcaactgaga tataaataca 240
 actctccacc taaaaatatt acgggtagaa gtaacactga ggatggctag aaatggatat 300
 aagaaaaactc attattgact aaaatgcaca aaagaatcaa atcttgacca cgaatctttt 360
 tttttggttt taatttaaat cttccaaaat ggaatggggg taccagtcac atcacacaat 420
 ggcagaaaact cgtgtcaaga gctgcagcc cccacactga tggatgcctc caatctcagc 480
 agcagaatgt gtacggaatc gatgccgatg aaaacagttt cagtaaaatt acaaaagaat 540
 gaaaaacatg gacatttgtt taactgtact acaggggaaa aacaaaaatc tgatcaaaga 600
 attaagtgtg atgaatagag ttcaagctgg agaacacctt cttaaaaacat tttcagggtt 660
 agtatgtttt ggtttaaaat gtttgcattc aaggttctcc ctata 705

<210> 809
 <211> 230

<212> DNA

<213> Homo sapiens

<400> 809

```

gaatttcgctg cgcgctcgac gtgagctaaa gcagtcgaatt ttttcatgga gcaccacgaa 60
agaacaaaag acatataaat tatggttatg caaagtaaaa tataacaacat tttcttttct 120
ctcctttttt tttttttttt tttgagacag gtcttgctct gtcacccagg ctgcagtga 180
gtggtggtgc catcaactgct caacacagct tctatctccc aggactcgag 230

```

<210> 810

<211> 544

<212> DNA

<213> Homo sapiens

<400> 810

```

gaatttcgctg cgcgctcgac cgtcgattga attctagacc agcccgccca acacagcgaa 60
accccgctct caccaaaaaa atacaaaaac cagtcaggcg tggcggcgcg cgcctgcaat 120
tgcaggcact cgcaggctg aggcgggaga atcaggcagg gaggttgtag tgagccgaga 180
tggcagcagt atagtccagc ttcggctcgg catgagaggg agactgtgga aagagagggga 240
gagggagacc atggggagag ggagagggag agggagaggg agaggaccgt ctgcttttaa 300
aatgggaaat atcagtattt gaggcaatga agtcaaaatt gacctaatga gatgttgata 360
cgattctttt cctgaagctt taatacattt acatttttat ttttggaac tcactttcat 420
tctgtacatt tatactgtac ctattttgtg ttgtcagatg tacgtgtgtg agttactgat 480
tttcttcttc acacatggag acacttggca gccaatcagc ccaccaggaa atagggtccct 540
cgag 544

```

<210> 811

<211> 714

<212> DNA

<213> Homo sapiens

<400> 811

```

gaatttcgctg cgcgctcgac ccccaacctg cccgcatgcc ctatatctca gacaagcacc 60
ctcgacaaac cttggaagtg attaaccttc tgagaaagca ccgggagcta tgtgatgtgg 120
tgctagtgtt gggcgccaag aagatatatg cccatcgagt ctttttgtca gcctgtagtc 180
cctacttccg agctatgttt acaggagaat tggcagagag ccgtcagaca gaagtagtga 240
tccgagacat tgacgagagg gctatggaat tactgattga ctttgcgat acctcccaga 300
taacagtaga agagggcaat gttcagaact cttctgccag ctgcttgccct cctccagctg 360
gcagaaatac aggaagcctg ctgtgaattc ttaaagagac aattagatcc ttctaactgc 420
ctgggcattc gggcttttgc tgacacacat tcatgtcgtg agttgctaag gatagcagac 480
aagttcacc caccataactt tcaagaggta atggagagtg aagagttcat gttgcttcca 540
gccaatcaac tcattgatat aatatccagt gatgagctaa acgttcgcag tgaagaacaa 600
gtgttcaatg cagtgatggc ctgggtcaaa tacagtattc aggaagacg tctcaatta 660
ccccagggtc tgcagcatgt tcgtttgcct ttgcttagtc ccaagcccct cgag 714

```

<210> 812

<211> 309

<212> DNA

<213> Homo sapiens

<400> 812

```

gaatttcgctg cgcgctcgac acagaaaagg gcttggttgg acaaatttac aagggttgtt 60
aaacatacaa agtgccaaaa gcctatagtc attcattcta ttacttggtg gcaggtaaat 120
attttgtgga aagtatttgt ttatttttat ttttactttt tgagggtggag tctcgccctg 180
ttgcccagge agcagtgcag tggcgagtc tcggctcact acaacctctg cctcccgggc 240
ccgagtgaatt ctctgcttc agcctcccaa gtagctggga cttaaaggcat gcaccaccat 300
cacctcgag 309

```

<210> 813

<211> 178

<212> DNA
 <213> Homo sapiens

<400> 813
 gaattcgcgg ccgcgtcgac gtgcattgaa ttctagacct gcctcgatga atcccgaac 60
 ctttccaaac acgtctcatt tattagtctt aatattcttt agtagattcc ttagtggttt 120
 tttttgtttt ttgttttttt ttaataatat aaaggatcat gtcattctga aactcgag 178

<210> 814
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 814
 gaattcgcgg ccgcgtcgac aaccttcttt tgtttgtcag cagccaaggt gtttccagga 60
 agttcagaga gaacagaatt taagaagtgc aacatggcca ggggctgcct ctgctgcttg 120
 aagtaacatga tgttctctct caatttgata ttctggctct gtggctgtgg gctgctggga 180
 gtgggcatct ggctctccgt gtcccaaggc aactttgcca cttctctccc cagcttccct 240
 tcgttgtctg cagccaacct ggtcatcgcc ataggcacca ttgtcatggt gacgggcttc 300
 ctgggctgcc tgggggcat caaggaaaac aagttctctg ag 342

<210> 815
 <211> 668
 <212> DNA
 <213> Homo sapiens

<400> 815
 gaattcgcgg ccgcgtcgac gtgtgccttt gctgttgaag agtccgaaa cttaatcaaa 60
 aatagatgtg agggttctgc tgcactgtac tgggtgtcta aactatacta gacgtggggc 120
 ttagaagagc tcccctttcc acatagaaaa gctctatggg gttggatcac tctctacaga 180
 ttcttctttt gaatccccatt ggtctctccc gttgttctct acaccatag ccacagagaa 240
 ggagtcacaa agtgaagccc tcagcttctc cttctctaag ctctctgcag cctcagtggc 300
 ctcatctgaa cagtgcagat gatagttacc acttcatagg gctgcctaga aaacaaaatc 360
 cagtgtgtgt caaatcacct catagcacat cgtagatgct caagaaagt ggctgggtgt 420
 actcacattc tgctgcagcc cctaggctga ccccatctct gacagtcctc caacttggtc 480
 tctccctgct ctttgcctcc ttctctctag ggtttgctga gacgagagg agagaaagg 540
 tgggtgggtca gtcacccctt ctggctatga cagggttcag tcatgggtgg aaaggagaca 600
 gcactactct taagcactct cctgagattc atgatggaca ctctccagc aacgcagggg 660
 ccctcgag 668

<210> 816
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 816
 gaattcgcgg ccgcgtcgac ggcagatggt gtgaagaggc attgtgagct aagtgtatag 60
 gtgaggtgag ttaataaaaag atgtaaatc tggcctaaaa tgggtgaggc tcattggtatg 120
 caggaaaatt taattaagtg gccaccactc ttcccccat caattggatt ttcttctgcc 180
 acagtaagaa gtcattccagg atatgctggg ggggcactta gatgagctct ggtccgttga 240
 gtgttttcat tttctgatat tctaattgcc agcgaggaa cttgaacgta agaaaatcat 300
 gtgaaacttc atcaaaaatt aataatcacc aagcaggact cgag 344

<210> 817
 <211> 163
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure

<222> (135)

<400> 817

```

gaattcgcg ccgcgtcgac ggggggggctt ttattaatat tgtcacacca caccacacca 60
cacacacaca ccacacca caacaccgtt tgaaagctgc atcaagctgt gcacaaacat 120
gatcgacgtg ctgtntttgt taagcctccg ccttccctcc gag 163

```

<210> 818

<211> 319

<212> DNA

<213> Homo sapiens

<400> 818

```

gaattcgccc aaagaggcct aaacaaggga tttgaacgtt tttcagcaca aaaggataac 60
ttccgagtggt tgggtctgtac gcatactagc aaaggtaatg gtgatctagc aaacaaaatt 120
ggtttctgca gttagaagtg agcaggagca cttgtattat agtattttaa taatcctggt 180
taatctcttt ttaagccgag taaccctccc agattttgcc tttttattat tgaggctggc 240
tttattttct tctacttttt ttcccgtttt atagcagtta attatttttg tgattattat 300
gcaagaagca ttactcgag 319

```

<210> 819

<211> 393

<212> DNA

<213> Homo sapiens

<400> 819

```

gaattcgccc aaagaggcct acagagaact gaatagatga ggggtgttga aagaaacgtt 60
tttgggcatg gtgtaaaggc atgcttgagg gattctaagg aggctgggtg gtggctggaa 120
ctaagtgtgg ggatgagagg tactaggaga tcacatgaga ccatgtaggc cactgttagc 180
agtgagtaca atggtaaatg agtagaagga ttttgaacag caagattgct atgatcttac 240
ttaacactta taaaagagtc actcctatga cttttgtagg gtgagtaagc tatagtaata 300
tcaatagaaa tgaacatgct ttgcatttgc catgtgtcag gtattattat tattatttat 360
tttacttttt tttgagatag ggatccactc gag 393

```

<210> 820

<211> 270

<212> DNA

<213> Homo sapiens

<400> 820

```

gaattcgcg ccgcgtcgac gaaggataag aacaggtcgg agatgtccgc ccagagggtta 60
atttctaaca gaacctccca gcaatcgga tctaattctg attacacctg ggaatatgaa 120
tattatgaga ttggaccagt ttcccttgaa ggactgaagg ctcataaata ttccattgtg 180
attggatttt ggggttgtct tgcagcttcc gtgattttta tgtttttgt gctgaccttg 240
ctgaccaaga caggaacccc acacctcgag 270

```

<210> 821

<211> 163

<212> DNA

<213> Homo sapiens

<400> 821

```

gaattcgcg ccgcgtcgac ctacatagtt ctttctgaat acaaatctca gataaaacac 60
tatctcagtg atcaaccagg ttaagcaacc tttttagtgc ctcaattatt ccatttgtaa 120
aattgtaata atgatagtac taacctataa gattattctc gag 163

```

<210> 822

<211> 200

<212> DNA

<213> Homo sapiens

<400> 822

```

gaattcgcg cgcgctcgac attagaagct ctagtgagtg aagtttggtt atactttgaa 60
aatatactaa gatggaacca ttaaaaacag taataatttt tattatcttt catttggtca 120
agaatgataa aaagcatcaa ctagaaggga aacttcaaga taccagatgt cgattgacca 180
cccaaaggca agatctcgag                                     200

```

<210> 823

<211> 284

<212> DNA

<213> Homo sapiens

<400> 823

```

gaattcgcg cgcgctcgac ccaatacaca ccacactgtc tacttcagtg gggaaatacc 60
aaccctcctt caccaatcca gaaagaaatc tgtaatatga gattcctcga cagtgtagaa 120
acctagttct gtgtagtatg gttgttttgg acatttgtaa atttatcttt aaagttttat 180
ttgtatatat ctttttgaga caggattttg ccctgtcagc caggttggag tgcagtggtc 240
tgatcatggc ccactgcagc ctcaatcccc caggctatct cgag                                     284

```

<210> 824

<211> 275

<212> DNA

<213> Homo sapiens

<400> 824

```

gaattcgcg cgcgctcgac tattgtggta ctgtttataa tttattgggt ctcttaggac 60
cttagtgagg gttggctact ttttggttac aactaagta gctccagact gttttaaaaa 120
tgcttgcttc tgctgtatat aggtttttat ttatttggtt gtttttggtt ctgcttttgt 180
ttcttccttc ggtgttgggt gacattttta actatcatag ataccctttt ctaaagcagt 240
ttctatctcc tgggtccacc cccctccacc tcgag                                     275

```

<210> 825

<211> 256

<212> DNA

<213> Homo sapiens

<400> 825

```

gaattcgcg cgcgctcgac catctgggta tttggaaaca agtggtcatt gttacattca 60
ttctgctgaa ttaacaaaac tgttcacctt gaaacaggca cagggtgatc attctcctgc 120
tggtgcttct cagtgccttc ttccaatat agatgtggtc atgtttgact tgtacagaat 180
gttaatcata cagagaatcc ttgatggaat tatatatgtg tgttttactt ttgaatgtta 240
caaaagggaat ctcgag                                     256

```

<210> 826

<211> 276

<212> DNA

<213> Homo sapiens

<400> 826

```

gaattcgcg cgcgctcgac agagcttaaa ggetggatta tgcaataact aacttttttt 60
atttttagtga aaacgattca aatttcaaca catttaataa taaatgagaa aatttcagta 120
gataagcata gaacaaatgt aaaagaaact ctcttcaacc aagattgtac tattgtatgt 180
ggtctaaagt atagtaatat ttttactcag aatgggtgaat taaagatact gggagcttct 240
gaaatgcata ctattccaaa aatgggggta ctcgag                                     276

```

<210> 827

<211> 169

<212> DNA

<213> Homo sapiens

<400> 827

gtccttgtgc tgaggagaag gatgtttatt ctgatatcca ttagatgaaa tgttctgtaa 60
 atatctatta ggtccatttg tggtagta cagattaagt ttgatgttcc tttttgattt 120
 tctgttattg gaagatctat ccaatgctga aagtggggcg agtctcgag 169

<210> 828
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 828
 gaattcgcgg ccgcgtcgac catcaagtct acaagaaaat taaaggagtc tttgattaac 60
 agtgggtttt caaacaacc tgggtgacaa cttagtaagg aaaaagtcca gaaaaaagc 120
 tacagaaaac tgaagactac ctttgttaat gttacttctg aatgcgctcg ag 172

<210> 829
 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (251)

<220>
 <221> unsure
 <222> (264)

<220>
 <221> unsure
 <222> (274)

<400> 829
 gaattcgcgg ccgcgtcgac gctgctctga tgacttttaa aaactgattt gtagggatcc 60
 tttgtgtaaa cactaatgct tgatctgata tatcaaattg tgtgaatgct taacagacca 120
 agcatttagta ttcacacatt catgtgcatg tgtacatgtg tgtgtgtgtg tagtatctta 180
 tgcattctac cctagaggat gccactcacg taactttatt tttattatgt atataataat 240
 cagggtacac natatctgtt tttntgaaaa gctnactaat acagcagaat ctatctactt 300
 tcatttcctt agtttgaagg tgagtataca aaattcacaa tctctacttt gaataatctt 360
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ttgccttttt attttgttgt ttgtttcctt tgccacgctg aagcttttta gtttgagcta 180
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tgtgcataatg tatttacaca catatatcca tgtgtactcg gtctcaatat caaaatattt 180
cttacagtta cttatgggtca aactgtttga aatacttgta ttttaatttt ctgggtgtggc 240
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<212> DNA

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.

6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.

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 <213> Homo sapiens

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 gtgagttagt tgtttctgtt ggtcaactga atctcaggta tctttggtct tcctttctct 120
 tacaatggaa gtaatgttca ggacctatct gagaccagtc ccttgtctac tgctcttcat 180
 ccttttttct cttgttttct caatggcttt actccttctt ctcttcaaca gcatcagctc 240
 tgccccctct tactcttttg caaagacacc caatctcgag 280

<210> 843
 <211> 361
 <212> DNA
 <213> Homo sapiens

<400> 843
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 gagtgttcat ttttttctta ttgctgatac ctgtagcctg agaatgttac ttctagcagt 120
 tgtcttcatt ttgtttatct ttattaatgt agaaaattat caaacccata gaaaaattga 180
 gagtagagtg aatacccata tgccccctgt cttgggttct cagctattaa caccttgta 240
 tattttctat cctctcttcc ctctcttact ctttcttctt tctctctctt tcttctcttg 300
 tctctctctt ttgtgcagac catgtgacac ttcaccaaca tataacactt cactcctcga 360
 g 361

<210> 844
 <211> 121
 <212> DNA
 <213> Homo sapiens

<400> 844
 gaattcgcg cgcgctcgac gggagacaaa gaaatatcga aagcaagtaa agaaaaaaaa 60
 agacaccagt gatcaacaga ataaagccag aatgagattg aagtagaaaa cttggctcga 120
 g 121

<210> 845
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (75)..(76)

<220>
 <221> unsure
 <222> (97)

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 ggtggggng tagtnncttc ccagttggcc agaaaanagg gccttgaga ccccttagc 120
 attttttccc ttttttctt tcctgtctt ctacttcttt ggggagcccc ttgtgttttg 180
 gagtctgact ggagtctctc atcctggggc ctgctccatc catccctcct gggcgccaga 240
 cctccatcc aagccctgtg tctttccata gtcagggtca ggccttgcct ctattccaag 300
 gggcactcag tacacattcc ataaattagc tgggtgtccc tgcacgccc ccccatgaaa 360
 ctcgag 366

<210> 846
 <211> 183
 <212> DNA
 <213> Homo sapiens

<400> 846
 gaattcgcgg ccgcgtcgac tggttctttt atagctaata aatatacttt tatctggctt 60
 taagattttc tctaatactt ggttttaagc aatttggtta tgagggtgctt tgatgtagtt 120
 ttatgtttct ttttattatt attattaaat ggtgtctcac tctgttgccc aggttactc 180
 gag 183

<210> 847
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 847
 gaattcgcgg ccgcgtcgac atcctgggtc ttgcctgtaa tatcaatcaa ttgtttcacc 60
 ttctctctcaa agtcagcacc attatgggtc gaaatcatct gtgcaagtct aatttgttct 120
 gcagtggcct gtggccgctg cttgtgtctgt gtctgggttt ggttttgagg ttgttcccag 180
 tccccctcga g 191

<210> 848
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 848
 gaattcgcgg ccgcgtcgac gtcacctcaa gcatttatcc tttgtgttac aaacaatcca 60
 gttatacttt tttagttttc ttaaatgtac gattaaatga ttattgacta tagtaacct 120
 gttgtgctat caaaaatatt agggcttatt catttattca ttcaattttt ttggtaccca 180
 ttaateatcc ctacccccct cctcgag 207

<210> 849
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 849
 gaattcgcgg ccgcgtcgac ggaattatct agtccccaga ttgatcatct cccctggcaa 60
 cgtgactctg ttttttgtgt gtgtttccat gctgactagt cccctactgt taatatact 120
 actaattagg ctataaccag gtctttcctg gcctgagaaa tattctctta aaatgacctt 180
 tgttttaatc tcattcatga tgttgatttt ttttcaatgt ggtgctgggc tcgag 235

<210> 850
 <211> 205
 <212> DNA
 <213> Homo sapiens

<400> 850
 gaattcgcgg ccgcgtcgac cctaaaccgt cgttgaatc ttaaaaaactt ttatatctct 60
 tgttcataat tgatctgaca gataacagtt tgttaaaata ataatagtga ccatgtattc 120
 gattatgctt ctgtgggttt gtatatgtgt gtgtatctat acatgggtact taggtataag 180
 tgaaatgaat gacagcgatc tcgag 205

<210> 851
 <211> 221
 <212> DNA
 <213> Homo sapiens

<400> 851

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 caagactata caaattgtcc tttttaatgt tctctcttct gctatcccta gttggcagtc 120
 ttctctctta caacctgctg aaagtggaag acctccagtt ttctcttaat tcttcagcaa 180
 accaccaact atttatatgtc tttttccag aacaactcga g 221

<210> 852

<211> 254

<212> DNA

<213> Homo sapiens

<400> 852

gaattcgcg cgcgctcgac ctaacaatga agagtcaaga aaaagctaatt ttaggagaaa 60
 atatggagaa gtcttctgca agcaagggaag aagtcacaga agtcagtatt gaagatacag 120
 gtgttgatgt agatccagaa aaactggaaa tggagagtaa acttcataga aatttgctat 180
 ttcaagattg tgaaaaagag caagacaaca aaacaaaaga tccaacccat gatgttaaaa 240
 cccccacact cgag 254

<210> 853

<211> 247

<212> DNA

<213> Homo sapiens

<400> 853

gaattcgcg cgcgctcgac gtcatttgac aacatccctg gcttttgttt gtttcttct 60
 gggtagagac aaatttactt tccatttctg ataacaacgg agtcagtcct cctgctgcc 120
 gaggattttt tgaacacagc tgaatactgc tcttcgcat ttctgagaga gggcagaacc 180
 gggtcacgtt gttgcttgac agagggccat gataactgtc tacagatatt taaagggtgt 240
 actcgag 247

<210> 854

<211> 253

<212> DNA

<213> Homo sapiens

<400> 854

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 agtactcttc tttttctgga taatagaagg atcttagaac actttaatto catttatctc 120
 cctcacagtt tttatgctat attgccatct acttacatc ttggtaaatt ttaaacttca 180
 gaagacatta ttattattgt tgtttgaaca gttaatatct attgagagtt actcatatat 240
 ttgccacctc gag 253

<210> 855

<211> 318

<212> DNA

<213> Homo sapiens

<400> 855

gaattcgcg cgcgctcgac acctgcctcg agcctaggct gctccttttc acctaatata 60
 cccagtttat aaatgggact cagttataaa gtttaggtcc acctcctcca ggaaattttt 120
 tcttgacacc tcttctctcc caatctcggt tgggtactct agcattgtgc ttccacctt 180
 tgcacagagc aatcatcatg tttaccacat ctactattaa cataattgtt tctgtgtttt 240
 tctcctccac aagatttatt ttttttagat gaggtgttgc tgtgttgccc aagctggact 300
 tgaaccctca ggctcgag 318

<210> 856

<211> 249

<212> DNA

<213> Homo sapiens

<400> 856
 gaattcgcgg ccgcgtcgac aggtttcagc ttcttctga ttcaatcttg ggtggttgta 60
 tgtttccagg aatcctatcca tttttttaa ttttttttag ctttttttagt ttgtgtgcat 120
 agaggtgttc ataacagtat ctgaaggctt tttgtatta ttgtggagtc agtggtaatg 180
 tcttctttgt catttctgat tggatttatt tggatctact ctcatttttt ctttattagt 240
 ccgcctcgag 249

<210> 857
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 857
 gaattcgcgg ccgcgtcgac aggtttccaa tcaatataaa tatatatata tatatacaca 60
 cacatatata aaaagtataa tttttctatt ttgttttttg gttttaattt gcagagattt 120
 gctgccagga tcaaattttg agggttcaga tttagcttg aagaaaaaaa agaaacatac 180
 atccttcagt ataggagatg agggcactcg ag 212

<210> 858
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 858
 gaattcgcgg ccgcgtcgac caaaaaacaa aaaaagaaaa tcttagaaaa agaaaataaa 60
 ttgtaaatatt tcagaatatt tgttggggag gatattgtgtg ctcaagaaat acatactgag 120
 aacttaccat tgatgctaga gattgaattt ccccatgtct acatgaaaaa tgaatagaat 180
 ataaacattt taaattgagc catgtctatc tgtattatat ttcttttata gaaattcatg 240
 gaaatggtat attttaactg aattattaac actggggaca ataggcttta atcattatct 300
 aatacctgta cgttgttttg aaattcatag cccaccacca ttaatttcaa aattgggttc 360
 ttactcaaag agtgatgaaa aggcaccagt accaaatggt ctggccaaaa tgctacatgc 420
 ctcgag 426

<210> 859
 <211> 215
 <212> DNA
 <213> Homo sapiens

<400> 859
 gaattcgcgg ccgcgtcgac catttgacct ttaacaaat ccctaagtaa ataaatagcc 60
 cctcaggaaa actaagtttt tctctgctgt ttttttgctt gagagagcta taactgtaat 120
 agacttatat ttctgaacat tttagtgtct gccaatattt ggtaatatat atgtttccta 180
 tatttgaat gaacattctt cttccggtac tcgag 215

<210> 860
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 860
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 tgctgcagtt tctttccaga gaacctgtgt atgtgtaaaag ctgtacaggc gtgggtacac 120
 cacacagcct gtcttgcaat gtggactgtt gagttactag tacatctaga attctcctgg 180
 ctattccagg ctgcattgtt accttaacct tccctgtgat gtcttcatgc cgttgtcttc 240
 ttatgcaaga ataagactca aatgactcca gaaagctaca cttcctgttg tgagtatatg 300
 atatccattt cctacatag ccaactaacat cagggtttta caattttatt tatttcttgc 360
 tactttaaga aatttttgtg gtgaaataca tataatagaa gttgactatc tgaatcattt 420
 ttaagtatac attcagtagt gttaagtatg tcgccattgt tgtacaacca atctccagaa 480
 ctttttctat ttgcaaaaaca aactctgtac ccattaaata acattaaaca ttccattccc 540
 tccagcctca gcaaccccat tctactttct gttctctgtga gtttgactat tccaagcact 600

tcatatcagt taaatcatga agtatttgtc tgtctgtgac tggcttattt ctctgagcac 660
 agtgtcctcg ag 672

<210> 861
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 861
 gaattcgcg cgcgctcgac ctacaagttt ggacttgttt ctggaatctg cctacttgtt 60
 caaaatatta atagcatatg atattataaa ttaatgatta gttttatgta ttgcagaaaa 120
 tatttaatta tgcgtatttt tctaatata tttttatggt tacaatttga cttagtaaaag 180
 gatgaaaaca aagtagcaaa actcgag 207

<210> 862
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 862
 gaattcgcg cgcgctcgac taaacacatt atgatttttag taagacatat gcattattta 60
 gacatgtact tcttaatat aaagatagta tttgtaattg gttttgacct tattcagact 120
 atgggttagag tacatactaa gcaagaatta aaggctttcc attttctcga g 171

<210> 863
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 863
 gaattcgcg cgcgctcgac gtgttttcag aaagagaaaa catctcctgc aaagatctgt 60
 aggttgcacc ttgaaagaac aagacaaaac caaacttcaa gactatcctc ctgtttaaaa 120
 ggagactagc aggtgtcaaa gagaggcggg aaagctcatg atacctgatg taatcagtgc 180
 cctcctcctc ctggcgcgag caggatgcct tcccttcaat gactcccaac tcgag 235

<210> 864
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 864
 gaattcgcg cgcgctcgac tagaatcgtg gatcccatg gccctccttt gtcacatttt 60
 tctttttact gttctcttac cccctttcac tctcacttca ctctctccat gctgctgtac 120
 taccagttagc tctctttacc aagagggtct atggagaatg tggcttccca gaaatattga 180
 tgtcccatcg tatagggtt tttctaaagg agaccccaact ttcaccaccc acaaccatat 240
 acccccgaca ctcgag 256

<210> 865
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 865
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 tctgtttatt caaggatga agtacaacca ctttagccca gtgctcaagg ttatactttc 120
 cttactctgt accaattctc tagtctcacc atcgagggtt gcctgcggcc ctccagaccca 180
 tcacatgcat tctgcctca gcgtctcct tctgtgcaac acctgtcctt ctccctggcac 240
 taaccaaaagt tcaccattcc tcgag 265

<210> 866

<211> 262
 <212> DNA
 <213> Homo sapiens

<400> 866
 gaattcgcgg ccgcgctcgac cattttcttt ggctgttatg tgtaaacagt tccctctgta 60
 ctttgcattg tatgttttat ttttctctg cttgacaact tgtgccagag aaacattttt 120
 ctaccccttt ttgtctactc ttccaacctg tcaaactgtt gaattttcct tctcttttca 180
 tagtctctgc atttctaata atgttcaacta tagttcagtg ctgcccaata gaactttctg 240
 ctgcggggcg ggggtgctcg ag 262

<210> 867
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 867
 gaattcgcgg ccgcgctcgac atctacttct agcttttttc ctattttggc tccggcggtt 60
 ggttcctatc ttcccccgac tgcccgcgct cacagtcctg cttccttgtc ttttgcctca 120
 tatcgctcagg tagctagttt cggttcagct gctcctccca gacagtttga tgcattctca 180
 ttcagcccaag gccctgtgac tggcaacttg gctgactgga tcccacagtc ggcgtcttct 240
 cccacaggac ctccccagaa cccaccttct gcaccggctc gag 283

<210> 868
 <211> 219
 <212> DNA
 <213> Homo sapiens

<400> 868
 gaattcgcgg ccgcgctcgac aaaacgctcag aacatttggg gttttaaact gatttgttgc 60
 tccttatcca gcttagacac cagtaactct tgtgttcacc aggacccaga ccttggcga 120
 gggataggct cgttggtgac attgtgaatt tcagatttgt tttatccact ttttttgcta 180
 tttattttaa tggtcgatca acttcccaca aactcagag 219

<210> 869
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 869
 gaattcgcgg ccgcgctcgac gtaatacaga agggagtagg taaaaaatc tgaattctg 60
 aaaaagtatt agtataaact ttaattagta tttcatcttt aaatgttttt ctggctctgt 120
 ccaactgaaga agcttagaaa taatgaccaa atctgtttaca tccataccat tgtgatctta 180
 aaatatcttt ttctactaga agaaatggct ggttgcagaa attgcttatt ccccatgggg 240
 caggaagtgc acctcgag 258

<210> 870
 <211> 298
 <212> DNA
 <213> Homo sapiens

<400> 870
 gaattcgcgg ccgcgctcgac ctgcatttta aatatattgg ggacagattg cgctgagacc 60
 tggttatgag caagccaact ttttgaatct agagaatgga attcttaggt ttatatctct 120
 gttaagaaat actataaata tgactcttat gagaagactt tgttgcctct tagtgtttct 180
 gaatactgta tttgttggat tgatcaaggc tatttttcaa aaagctctct gcttctctgt 240
 tgtttgtttg tttgtttttg agacagagtc ttgctctgtc gccggggctg aactcgag 298

<210> 871
 <211> 150

<212> DNA

<213> Homo sapiens

<400> 871

```

gaattcgagg ccgcgtcgac cgtccctctc tctgacagaa gccatataag gtccatgagg 60
gtagagattt tcttttttct ttgtgttaat tgctgtatcc tcagcacttg gaaaaagggc 120
ctggcacttt gggatgagcg aacactcgag                                     150

```

<210> 872

<211> 241

<212> DNA

<213> Homo sapiens

<400> 872

```

gaattcgagg ccgcgtcgac attgaattct agacctgcct ctagtgtgtg ggtgtgtttg 60
tctttttgtc ttccatcttt tggtttacat tttaatcctc tcaaaaaata tcccttgcat 120
gtatcattca gcttctcaga gtttttgtgt ttttgtctgt gtatgtgtgt gtgtgtgtgt 180
gtgtgtgtgt gtgtgtttta aaacattttt tcttttgtt aggccacatg ctacactcga 240
g                                                                 241

```

<210> 873

<211> 228

<212> DNA

<213> Homo sapiens

<400> 873

```

gaattcgagg ccgcgtcgac catgtctcgg tccctgtcac ggggtggttct tttcctcttc 60
ctctccctca gaagtctgcc catcctacaa ggagatgtgc aggacctcc accccgaaca 120
ggtaactgcg tgccttcac ctccatcacg cagcctgacc ctgtgagccc ctctgtgctc 180
tgtggaccgg tcaccctgag ctccctcagtt gctgaaccac cctcagag                                     228

```

<210> 874

<211> 178

<212> DNA

<213> Homo sapiens

<400> 874

```

gaattcgagg ccgcgtcgac atattaactc aaaagaaata ggggtgatttt taaaggatta 60
ataaaattct gaaatgttaa gtagaagatt acattgtcta gtcttgatt tctcctctct 120
gttgctctct ttcattcaca cactctcagt ttctcatatt tgtagctcat tgctcgag 178

```

<210> 875

<211> 179

<212> DNA

<213> Homo sapiens

<400> 875

```

gaattcgagg ccgcgtcgac agtggtcctg caggatatat ctgattttaa aaataggaaac 60
cacaataata atagctgctt atgcttatgg agcattgcca tgtgctagat aggcaccatc 120
ctcagccctt ggcaggctcg agctccttta tttcttccaa tcaacactgt cagctcgag 179

```

<210> 876

<211> 214

<212> DNA

<213> Homo sapiens

<400> 876

```

gaattcgagg ccgcgtcgac caagatttta ccaaggccaa ttttagtagc tttgtttctg 60
ggtagattttg tctggtcaat atacagaaat aagaatgata atgaaagtga taatgatagg 120
aataataata ggaagagtag tgactttttg tctttgtgta tcaattcatt caacaaattt 180

```

gaccaagtgc ctgctacatg ccaaagcact cgag

214

<210> 877

<211> 436

<212> DNA

<213> Homo sapiens

<400> 877

gaattcgcg cgcgctcgac gtgcatgtcc caacaactca tctcaaatac taaattcaaa 60
agaaaaactg tagtrctcct cagcattagc actaatttat ggtaacaatc atttctttta 120
aatgtcctaac ttatttaacc ccttcatttt aaactgcaaa ttaaagcatg tatttacata 180
tttatataca aaaaacttca aaaacaaatt aatccaaatc ttggtecaag agtttccact 240
ttataagtgg tatggtacta tgctatatat atctctttcc aaaagtctct taggacttgg 300
taagttccaa atattcattc acaaatgggt cccctttaag cttaatgaac catatacttc 360
atttctgagt aaattagagg aaatattaca gaacacgctt tgtacaatac agcaccacta 420
ctgagaaggg ctcgag 436

<210> 878

<211> 174

<212> DNA

<213> Homo sapiens

<400> 878

gaattcgcg cgcgctcgac cttatttatt actgaaataa tctaaactga ataaataact 60
ttttaaaaaa ttacattggc cagtattagg ttcttgatgc gtatttggtg ttttggttgt 120
actgctgggt tttttctctc cagtattgga tgcgttaacg gggatgcact cgag 174

<210> 879

<211> 229

<212> DNA

<213> Homo sapiens

<400> 879

gaattcgcg cgcgctcgac ctcagaaaaa aaaacaaaca aacatgttgg tcaaatttat 60
aattaaaaagc acaatagtta ttggttggtt attgaataaa atcaggagtt ttaataatat 120
tggtgtggtg caccttgatg gatgggacca cagtatgaag gctgtagtaa tccagcatga 180
ggtgcccttt attttctttt tcagattcaa gagcaggcac gacctcgag 229

<210> 880

<211> 110

<212> DNA

<213> Homo sapiens

<400> 880

gaattcgcg cgcgctcgac atttatctga tcttttacag aaaaagtgtg ctaacccttg 60
ataacagata ctctaaaatg caggtttttc ttcttcaatt ggtgctcgag 110

<210> 881

<211> 239

<212> DNA

<213> Homo sapiens

<400> 881

gaattcgcg cgcgctcgac gtgacttggt taactgcac ttttgcacag tagttagtct 60
tttctgtgtg ggacaccatg ttggtagtgt ggaaatggtt tcttccatcc attgcctgcc 120
tttttagcttt gtgatgggtg ttctgttgaa aattttgggt cactgttaat gtgaacaatg 180
gttatgagac gagtgccatg agttctgtgt tgcctgtcac ccagcccggc acgctcgag 239

<210> 882

<211> 159

<212> DNA

<213> Homo sapiens

<400> 882

```

gaattcgcgg ccgcgtcgac ctgtgtggat ggactgagcc tagctaagtc ctgattcatt 60
ttgacttgag ttctctcagt gggaagaatg ggaagattt acagcttcgt cctggtcgcc 120
attgctctga tgatgggaag ggaagggttg gccctcgag 159

```

<210> 883

<211> 121

<212> DNA

<213> Homo sapiens

<400> 883

```

gaattcgcgg ccgcgtcgac ggggtctctt gcttttgttc ctctaaaaac tggctctgta 60
actttttaat attttcttca tgctgtgctc tcaattcctt catctgctgt ccacactcga 120
g 121

```

<210> 884

<211> 257

<212> DNA

<213> Homo sapiens

<400> 884

```

gaattcgcgg ccgcgtcgac cctagcttga atttgaaaca acagcacatc ttaatttggg 60
cactaaattt tcatcaaaaa tatttcattg atttagattt cataaattta cagttgaaaa 120
agtagatgta catatccaaa ttgtcccaaa catgcttaaa atttttccag tatgtatgtt 180
gttttaaaat atttatattt ttgttgttgt tgttgttgtt ttttaagatg gatttttgct 240
cttgtcaccc cctcgag 257

```

<210> 885

<211> 141

<212> DNA

<213> Homo sapiens

<400> 885

```

gaattcgcgg ccgcgtcgac gtctctctct gagctctatt tgcttcagtg caacatgaag 60
ttcatgacct agtccgcctt tgagagggca ctccgattc tcaacgtggc cctcgcatcc 120
ctccacccca gacaactcga g 141

```

<210> 886

<211> 286

<212> DNA

<213> Homo sapiens

<400> 886

```

gaattcgcgg ccgcgtcgac gcaacatgag gcttttcttg tggaacgcgg tcttgactct 60
gttcgtcact tctttgattg gggctttgat cctgaacca gaagtgaaaa ttgaagtctt 120
ccagaagcca ttcactctgc atcgcaagac caaaggaggg gatattgatgt tgggtccacta 180
tgaaggctac ttagaaaagg acggctcctt atttactcc actcaciaac ataacaatgg 240
tcagcccat tgggtttaccc tgggcaccc ggaggctcgg ctcgag 286

```

<210> 887

<211> 264

<212> DNA

<213> Homo sapiens

<400> 887

```

gaattcgcgg ccgcgtcgac ggatcagaaa tattgcttgg aaagtgtgta gctcatgatg 60
gatgctcaac aagcggtagt tatgataatg gcagggaacg cggtgggggtt gcttgtcttg 120

```

```

ttttctgcgt gttttggcgg tctgcaaggg gagagcagcc agcaggcagg gcacctgtgt 180
acgtcgatga ctgaccacc catggtaccc cagatctatc tccccaaaac actattcttt 240
ctgcctggga cccattctct cgag                                     264

```

<210> 888
 <211> 290
 <212> DNA
 <213> Homo sapiens

```

<400> 888
gaattcggcc aaagaggcct atgaagcagg cgctcttggc tcggcgcgcc ccgctgcaat 60
ccgtggagga acgcgcgcgc gagccacccat catgcctggg cacttacagg aaggcttcgg 120
ctgcgtggtc accaaccgat tcgaccagtt atttgacgac gaatcggacc ccttcgaggt 180
gctgaaggca gcagagaaca agaaaaaaga agccggcggg ggccggcgttg gggggccctgg 240
ggccaagagc gcagctcagg ccgcggccca gaccaactcc aggcctcgag          290

```

<210> 889
 <211> 243
 <212> DNA
 <213> Homo sapiens

```

<400> 889
gaattcggcc aaagaggcct agctaccaat tcttctactc ttcgtgctgt ttcttcctcg 60
atgagttttt cttctatttc ttgctgtcga atttttcgct gccgctcgaa ctccgctttc 120
ttctcctcct cctctcgttc ctgcttctcg tccaggctgc tgcgcttgct cctcacgttt 180
tgcacgttct tcctcctctc tagctttttg tgcggcaagg tcagcttgct tctgtcgttc 240
gag                                     243

```

<210> 890
 <211> 241
 <212> DNA
 <213> Homo sapiens

```

<400> 890
gaattcggcc aaagaggcct aagctgggtgt cattacacgt caacctgcct tgagccaagt 60
cctgcttcac ctgcagcgcg aacagggtacc ttgtgagttc ttcttggagt tgtgtgtggt 120
caggcggaag gaatttcacc acaaaacttaa caacaacgtg ctttggcctt ctaatctgtt 180
tcacaatggg ttttaggaga tccagccaca ccgtgatctt tttgtgatca ggaaactcga 240
g                                     241

```

<210> 891
 <211> 431
 <212> DNA
 <213> Homo sapiens

```

<400> 891
gaattcggcca aagaggccta aaaatatctg ttttaataaca agataaccac atcaagatgg 60
ttgaaagct gaagcagaac ttactatttg catgtctggt gattagttct gtgactgtgt 120
ttacactggg ccagcatgcc atggaatgcc atcacggat agaggaacgt agccagccag 180
tcaaattgga gagcacaagg accactgtga gaactggcct ggacctcaaa gccaacaaaa 240
cctttgcta tcacaaagat atgcctttaa tatttatttg aggtgtgcct cggagtggaa 300
ccacactcat gagggccatg ctggacgcac atcctgacat tcgctgtgga gaggaaacca 360
gggtcattcc ccgaatcctg gccctgaagc agatgtggtc acggtcaagt aaagagaaga 420
tcaagctcga g                                     431

```

<210> 892
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 892
 gaattcggcc aaagaggcct agtctgtccct gttgtgtggg gcgaagtgat ggactctgcc 60
 aggtggacat gctgtgggtg gatgttcccg gcgtgtgccg ggcctgaatg gacaggggcc 120
 acttcacagc atgtcaggga aaatcactgt cacacaattc caatggattt tgtgctcttt 180
 ttgaaaaaaa aaaattcttt agcgtaaaca tgaatttttt ttcaatgtag cccctgggga 240
 atgaatgaaa ttttgagctt cttcaatacg taaaattaaa tttataccac tgaggggagag 300
 accctttctg aaagaagtat ggccaaaagc accttaatgc tgcctgacatt gttgttttta 360
 tgttcatttg ctggagcgct cgag 384

<210> 893
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 893
 gaattcggcc aaagaggcct agtggggcct ggctatctag aaaccaccgc aatggctgga 60
 gccaaagttag gtcaatgggg taaacatttc agaaggtagg cagggcatgc cctgaggcca 120
 ggaggcctct gccgtcctgg ctgtgtcttc aggatggcca attctcacag aaaccaccac 180
 aaggaaagat ctctgggac gactcgag 208

<210> 894
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 894
 gaattcgcgg ccgcgtcgac atcaaatattt gtattatggt gctatatatt ggtaatgatc 60
 ctttaatatatt ggaagggat tttaaaaata ctgtgattaa actgggttct tcctttgatt 120
 ttcatatttt aaataaagcc acagtcattt atacaaaaga aaagcatctg tccttgggca 180
 aatcttttga ggacagaggt caaagtaaac tgcataaggt ttttacatca tttctgtatg 240
 tatttgatat atagatcaat atctgtacaa atttaattctt ttattttctt ggtaactcgt 300
 gatcattgag aaagtgtttg aaactttctc atgaagtgtg tatataatgg cgtgaaaaat 360
 tcctttggaa aaatttatgt tcctttcatt tttaccaa atgcataattt cagcatggat 420
 gtgaaaagca ttaaaattat aacttttgtt acaagatgaa aataattcac acactcgag 479

<210> 895
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 895
 gaattcgcgg ccgcgtcgac atcaaaaatg agggatgtaa gtttcaatgt gagtatttct 60
 gaatagtttt ttccaaatgc agccaagtca gtaatactct gttgtaactt tagatagggg 120
 atctatgaat taaaaatccc tgaatgtgac attactctaa aatcttgcac cttgaaactgg 180
 agagcactgt tgttttctgg taggaggtcc atgaagcatg cattagaggt agcttctttt 240
 cctggaggaa gatttggatg agtatgtatt ttttatattg aaacagacat gaatatattt 300
 tggagatgaa agtaaaacta gcaggaatgt taagaaaaaa cttaaaattg ctttaaagta 360
 taatgtcgaa tccccgaat ctcgag 386

<210> 896
 <211> 202
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (40) .. (41)

<220>
 <221> unsure

<222> (62)

<400> 896

```

gaattcgcgg ccgcgtcgac actttaacca gtagaacatn ncaaaaatga cactttgcta 60
tntttgggta caagccttga gcatgtcagg cagcttctac ttttgtaactc ttgggagctc 120
tgagttgctg ccgtgcaaga agctgtcata ccttgctgga gagatgatgt ggagaggaag 180
agattccagg acagtactcg ag 202

```

<210> 897

<211> 266

<212> DNA

<213> Homo sapiens

<400> 897

```

gaattcgcgg ccgcgtcgac cacagacttc tccactgata tctatgttag tatttatcca 60
gcttcttaact tggatatatgc acttggattt ttataaggta tctcaaacctt aatatgtcca 120
aaactaaaact tctgattctc tgtatacttc cagcttgctt ctcccacagt gtttccaatc 180
tcagtaaatg gcaaccctat ccttctagtt ctttaggcca aaagcttgga atcactcttc 240
ctttctcttc cccacatccc ctcgag 266

```

<210> 898

<211> 180

<212> DNA

<213> Homo sapiens

<400> 898

```

gaattcgcgg ccgcgtcgac cttgcattgc gtggttttag ggaagcaggg tctggctttt 60
aatatgaact gcaaaaagca gcttctcact gatatttttt tgttggtgtt tctggggggt 120
ttttttgttt tgtttttaat gcctttgagt gcatattttc ttctctgtct gaaactcgag 180

```

<210> 899

<211> 200

<212> DNA

<213> Homo sapiens

<400> 899

```

gaattcgcgg ccgcgtcgac atggggccact acactccagc ctgggtgaca gagcgagact 60
ccatctcaaa aataaaaaga gttgctagaa aaggtagaac ccacatttct ctggcttcca 120
aagcctgtgt tctttctgct gtattatgct tttttataac aaccaggcta atatatttta 180
aataccatcg tacactcgag 200

```

<210> 900

<211> 163

<212> DNA

<213> Homo sapiens

<400> 900

```

gaattcgcgg ccgcgtcgac cagaaagtgt agctctgaac aaggggacca ctatggctag 60
agagggccgt ggagctgagg gtgggatttc gttttgtttt gttttgtttt gtttttgttt 120
ttttgagaca aagtgttgtc ctgtctccca agctggactc gag 163

```

<210> 901

<211> 186

<212> DNA

<213> Homo sapiens

<400> 901

```

gaattcgcgg ccgcgtcgac gtactgtaac atgaaagcgt tgctcgacta ccttccgctg 60
attatcttct tctactttta taaaacgacc gatcctaag atagtcaaca tccccctctc 120
caattggttg gtacgcgagg aaatactgat caaaatcata ttcttggttc aacaggcgca 180

```

ctcgag

186

<210> 902

<211> 212

<212> DNA

<213> Homo sapiens

<400> 902

```

gaattcgcg cgcgctcgac ttcactctct tgatgctctg catTTtctct cttaaactcga 60
cccacagtag accctccac tcaaactctgc ccccaatacc ctttgcaacc aatattaccg 120
cactacactt tatcttccct aagggtttcc tgcctcctct ggtcttaggt gaggtcattt 180
ctctgccagc ctttaaagtg gaagcctcag ag 212

```

<210> 903

<211> 192

<212> DNA

<213> Homo sapiens

<400> 903

```

gaattcgcg cgcgctcgac gtttattaaa aaaaaaaaaa gaagaagaaa gcttgcagag 60
attattgggc tcaggaaagt caagttaaatt atgcaaattt aatgaataat aggaaattac 120
ttaaatatct ttaattttat aagcttccct atgacagtgc ttatccactg tattctttcg 180
gttctcccta ta 192

```

<210> 904

<211> 196

<212> DNA

<213> Homo sapiens

<400> 904

```

gaattcgcg cgcgctcgac tgtaaaattga gggtccctcat ttcccttatga ccaccaagat 60
gcaccttttc ctatttttga ctctaattcc agcagctgtg tttaaacctc ctggagattt 120
acagaaatac gtcttgccat tctgtgttca ttcgccagat tcattgctag ttgggataca 180
agcaagccga ctcgag 196

```

<210> 905

<211> 259

<212> DNA

<213> Homo sapiens

<400> 905

```

gaattcgcg cgcgctcgac tttgtttcaa agacaattcg aattgccttc tgaaagtcta 60
aatttgctag actaacattc agaattctcag tctgggtctct cttctagca atagctcctg 120
ctttttctta catgagtact ggtccagat catctagatg cttttgtttt ctccatatgt 180
cttgggcatt cctttctgtg tctgcatgtt gtttctctcc ctccagatgtt gtctcccaa 240
ctccataaaa agtctcgag 259

```

<210> 906

<211> 208

<212> DNA

<213> Homo sapiens

<400> 906

```

gaattcgcg cgcgctcgac cctagctccc ccgaaatttt aagactattt acctagattc 60
ggagatgggc ttggagagtt ccaaaagggg tgtgtgtgtg tctgtgtgtg tgtctgtgtg 120
tgtgtctgtg tgtgtgtctg tgtgtgtgtc tgtgtgtcta atatttagac taaaccatgg 180
taaatgtacg caccagtaa acctcgag 208

```

<210> 907

<211> 212

<212> DNA

<213> Homo sapiens

<400> 907

```
gaattcgcgg ccgcgtcgac ctaccagtgg acattttgag aatattgcag ttgtttttct 60
tctgaaagag taaaccaatt tggttactca ttttaccaat ttggttttga ttttgcaagt 120
ggttacaact catgagagga ttcttatttc tgatcaatat attgtgtttt tggaaaggac 180
ttctgggaaa taattatgat gaagccctcg ag 212
```

<210> 908

<211> 137

<212> DNA

<213> Homo sapiens

<400> 908

```
gaattcgcgg ccgcgtcgac ggagaagatt aatagatggg acagaaactg cctttgatta 60
accatcaggt tctaggggtt gtgataggca caacatatat attctacttt tggtatttga 120
gggggggtcaa cctcgag 137
```

<210> 909

<211> 209

<212> DNA

<213> Homo sapiens

<400> 909

```
gaattcgcgg ccgcgtcgac taaattcaca agaaaaatac ttgctttttc tcccttttaa 60
tacgaatctt aactgctggt atccttaaaa cctctgaagt tgatgaatga ctttttttaa 120
aatgaattt atgggttctt aacatgtatt tgtgttttat tttagtctt atttgtttta 180
gtgttcacat ctgcgccagg ctactcgag 209
```

<210> 910

<211> 392

<212> DNA

<213> Homo sapiens

<400> 910

```
gaattcgcgg ccgcgtcgac atactttttc cttcttatga cgtttttaac catttgttca 60
gttattttaa aaagtccaag tgaggtttta atcctattta aatctaccac atataatctg 120
gtgtgtgtat gtatttgtat gtctcattgt gttttatgaa taaagatata tcttcattct 180
tgtcaagcaa actacaaagt attagataat actttctcta gttttctaag catccattaa 240
taatttatag tatggacatg aagatgtttt tctgtgtctt tgttgttgtt gttgttgttt 300
gtttttttga gacaagggtc ctctctgtca ccagggctgg agtgcagtgg caggatcatg 360
gcctactgca gcctccacca gccaggctcg ag 392
```

<210> 911

<211> 192

<212> DNA

<213> Homo sapiens

<400> 911

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gaattcgcgg ccgcgtcgac gagacacata accttcta atcttagaaga gtattttctt 60
tggcaccaca caagccctat atagcaggaa ggaaatatga ggttcagaaa gagtctagtc 120
tcagtcttac ctttaacttc actgtgtgac cctggaaaaa tatctttctt ctctactccc 180
actcaactcg ag 192
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<210> 912

<211> 226

<212> DNA

<213> Homo sapiens

<400> 912

gaattcgcgg ccgcgtcgac ctgagaactt aatagtttta agtctggtgt cacttctctg 60
gacaaaataa tcttaaattc ttataatctt tcaacttaag tccttttttt ataagctttg 120
ttttatttcc ttactttact tttagatcctt cccagtcctt cagaatttta acttctatat 180
catgggttta ctctgccaat tcccatatta ccttcccttc ctcgag 226

<210> 913

<211> 465

<212> DNA

<213> Homo sapiens

<400> 913

gaattcgcgg ccgcgtcgac cggagtctcg gggtcgcgtg cacctgggcy gccagggagg 60
ctccagtgc ccggagaaaag gcaagaaaac tgaggcacag agagattgtc acacagccag 120
ttgtagttta caaagtttta ttccagaagg aaaaaagcca cttcacctag aaattttgca 180
aacaatatcaa cttttactct gtgagtaatc cagggcctat caagactaca ttttagttga 240
ctgcaaggcc tctgaggcac ggggaattcac agctgagttc ttggagaagg tccttgagcc 300
atctggatgg cggacagtct ggcacatgat gtgctcaagg tgctgcttga ggccacagat 360
gtggacattt cagccttgaa ggcagtgggtg cagcttgctg agccatacct ctgtgaatct 420
tgagcgagta ctttcacctt ggagtgtgtg aaagagctcc tcgag 465

<210> 914

<211> 172

<212> DNA

<213> Homo sapiens

<400> 914

gaattcgcgg ccgcgtcgac ctcacttttc agatcttgaa aggtttgaga acttggaac 60
aaagtaaaact ataaacttgt acaaattggt tttaaaaaaa attgctgcca cttttttttc 120
ctgtttttgt ttgttttttg tagccttgac attcaccac gcaaccctcg ag 172

<210> 915

<211> 185

<212> DNA

<213> Homo sapiens

<400> 915

gaattcgcgg ccgcgtcgac gtcctgcca tttacagtga gcttaagac cgatcacaga 60
aaaaaatgca gatggtttca aacatctcct ttttcgcca gtttggtatg tacttcttga 120
ctgccatttt tggctacttg acattctatg acaacgtgca gtccgacctc cttcacaac 180
tcgag 185

<210> 916

<211> 219

<212> DNA

<213> Homo sapiens

<400> 916

gaattcgcgg ccgcgtcgac aaaatattct attgtaagtt tgttttatta atttattttg 60
tggattacag taatgtctttt gttggcctgt tgtatgacaa actattttaa gggtcacatt 120
ttgatttgta ttgccaaca agcccttttg cttgttaaag ctatagctaa ctctcaggag 180
ataattgcag ttctactctt agaggatggc tgcctcgag 219

<210> 917

<211> 270

<212> DNA

<213> Homo sapiens

<400> 917

gaattcgcgg ccgcgtcgac gaaatacagt gtatatatca ttgtatagta cataaagcac 60

```

tgaatgatac atttataatc agaattttta aaaaatccctt agattttatag tcagaaaaaa 120
agacttgtag agattagaaa gattatggat tactttgagg ctatgaaaat tgataattct 180
ttaatttcaa cagtcagata tatgttagtg tttagagtag ttttcagctt tctattagaa 240
catccgaaag ttaggggaca gaagctcgag                                270

```

<210> 918
 <211> 154
 <212> DNA
 <213> Homo sapiens

```

<400> 918
gaattcgagg ccgcgtcgac tgtaatttag tttctgcag ttccatttag gtatcatttt 60
aatacttaga aaggaacaca aagatttttt tcaaatgaga aaactttcag cttttatcaa 120
atatttatct attcaaaca cagtagctct cgag                                154

```

<210> 919
 <211> 210
 <212> DNA
 <213> Homo sapiens

```

<400> 919
gaattcgagg ccgcgtcgac gacaggggtct tgctgtgcta ctcaggctga tctcaaactc 60
ctggcctcaa gcttcctccc accttggcct cccaaagtgc tctaatatca tttattgaaa 120
ggctttacct gttgaaacac ctaggtagct atattgaaaa tcaatccatc atatatgcat 180
gggtctaaaa ttttgaactg tattctcgag                                210

```

<210> 920
 <211> 551
 <212> DNA
 <213> Homo sapiens

```

<400> 920
gaattcgagg ccgcgtcgac gatgttttca acgttctttt gtcttttgcg gaagtcagga 60
tagattcaag acataatctc ttgtaagatc taaatagagc aaatgtaaac aaaagtgcac 120
ttttgtatct ttgttaattt tagatgcctt cctagcttac aaaaagtctt atttttgggt 180
taaaaatcaa tcaactttct gatatttccc cttctgcaat gttattgttc ataagaaaac 240
acgagctgaa aatggaaatc tgcagttgtt tcagttgtct tgaatttctt tcagtggcca 300
catcatttcc acgttttcca catccgggag gaagcctgga ctgtgcagcc ttcgggcacc 360
cggcacagac actgtgctgg caggagcttc agacacgcca agtggatgga tttggattga 420
acgcatatga aacaggagac gggttctcat gtgagatcaa agctcctcca aagcctgttc 480
aagctctaa cagattctcaa atgtttaccat ttattaaagg taaactacac ctgttgaagc 540
ccgcgctcga g                                551

```

<210> 921
 <211> 164
 <212> DNA
 <213> Homo sapiens

```

<400> 921
gaattcgagg ccgcgtcgac ctgcccgggt gtgtgatggt cccctccctg tgtccatatg 60
ttctcattga aacaatgatt ctcttaaaac actctcaaat ctgcccactt ggtacatgc 120
ttttgcaata ttccagacca aattaccatg atctgtcact cgag                                164

```

<210> 922
 <211> 194
 <212> DNA
 <213> Homo sapiens

```

<400> 922
gaattcgagg ccgcgtcgac ctctgtctta aaaaaaaaaa aaaaaaaaaa aaaaagttaa 60

```

tggatctttt gatacagatt gaaaaagcct ttattcaaca cctaaaatgt gtcagggtgct 120
ttggctttgt actaacatgg ttactgatta ttatggtttt atccctttta aaatacaaag 180
aagcaggctc cgag 194

<210> 923
<211> 200
<212> DNA
<213> Homo sapiens

<400> 923
gaattcgcgg ccgcgctcgac gagatgcttg aggtgcagtg ttggggatcc agagccatgt 60
cggacctgct actactgggc ctgattgggg gcctgactct ctactgctg ctgacgctgc 120
tggcctttgc cgggtactca gggctactgg ctgggggtgga agtgagtgtc gggtcacccc 180
ccatccgcaa cgtactcgag 200

<210> 924
<211> 158
<212> DNA
<213> Homo sapiens

<400> 924
gaattcgcgg ccgcgctcgac ctactacctc accgagaact cctccaccac tgactgttca 60
ggatccctta tgtcctgcag tttgtccctt agaagaatta tctccagata gtattgatgc 120
acatacgttt gattttgaaa ctatccccca tctcgcag 158

<210> 925
<211> 187
<212> DNA
<213> Homo sapiens

<400> 925
gaattcgcgg ccgcgctcgac gtgtcacagt catcaacatt ttttgtgtaa gcagaaactt 60
tattgtgtgc tagttactta atatcagtg ttattccatt ttcttcatta tcatattcca 120
tattataata attagatgtg aagacatgca ctttcgtgta ttgagtattt ataggatcag 180
tctcgag 187

<210> 926
<211> 164
<212> DNA
<213> Homo sapiens

<400> 926
gaattcgcgg ccgcgctcgac aaatagtatt ttaaagaga ttattggta cgtgcttctg 60
gttttttaaaa ttcttgga aatcatatgc tgtgatcaac catagcgctg tttttttttt 120
aatagcagga aatgtatata agtcattac cgcacttact cgag 164

<210> 927
<211> 192
<212> DNA
<213> Homo sapiens

<400> 927
gaattcgcgg ccgcgctcgac cttgcttcag aaattgaaat ctgaaggacg tcgggtgctg 60
attttatcac agatgattct tatgttggac attttagaga tgttcttgaa cttccattac 120
ctcacctatg taagaatcga tgaaaatgcc agcagtgagc aacggcagga actgatgagg 180
agtccctcag ag 192

<210> 928
<211> 167
<212> DNA

<213> Homo sapiens

<400> 928

gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctagacctgc ctcgagcctg 60
accaacatgg tgaaatgctc tctctcctaa aaaaaaaaaa tttatatata tatatcagcc 120
agggtgtggtg gcacgtgcct gtgateccag ctacgctgga gctcgag 167

<210> 929

<211> 144

<212> DNA

<213> Homo sapiens

<400> 929

gaattcgcg cgcgctcgac acctcctcca tttaaataaa ctggtgactt tccttttatt 60
ttttaaaagt ggaaaccctg tgtgtgctc tcgatttaag ggtttctgat gacattatcc 120
ttaagaccag cattgatcct cgag 144

<210> 930

<211> 213

<212> DNA

<213> Homo sapiens

<400> 930

gaattcgcg cgcgctcgac agtttttgca tgtaaagttg ttcatagtag ccttgaatga 60
tattttgtct tcgggtggtg tcagggtgtaa tagctcccat tttgtttatc ttttcaaaga 120
accagctttt tttgtttcat ttatcttttc tattttttta tttttgttcc aatttcattt 180
agttctgctc tgatgagaat gctacttctc gag 213

<210> 931

<211> 252

<212> DNA

<213> Homo sapiens

<400> 931

gaattcgcg cgcgctcgac cctaaaccgt caattaatat tactgcctac ttggagcttc 60
aagtctaat tgggggaaat aaagagcaac agaaaagaga acacttgggc caacacataa 120
aaagggtgat aatatttttag agagtttggg tagacttgaa tattatttgt ttagaacctg 180
aatctcaagt ctaagtctgt aacaagattt ctcttcacaga tgatgaggag tctgatgagg 240
agagctctcg ag 252

<210> 932

<211> 437

<212> DNA

<213> Homo sapiens

<400> 932

gaattcgcg cgcgctcgac gcggggcggc cggcatggag ctcccgagg cgcggcagg 60
tcaggagctc ggtggcatgg cggcggtggc tgccccgatt tcctccagct gccactcctt 120
gttctgtgtc cccggtccct agacgcctcg tctctcccg tgctccctctt cccatggagt 180
cagtacggat cgaacagatg ctgagcttgc ccgcccagggt cagcagcgac aacttggagt 240
cgcgggagcg aggggcatca gcggcccaag tagacatggg cccccacca aagggtggctg 300
cagagggccc cgcacctcta ccgacgcggg agccagagca agagcagtct ccggggacct 360
caacgccgga gagcaaatgc ctgctcacgc aggcagacgc cttggcgtcc cgggggcgaa 420
tccgtgaagc cctcgag 437

<210> 933

<211> 137

<212> DNA

<213> Homo sapiens

<400> 933
 gaattcgcg cgcgctcgac ctataagctg ttgcaacttt aggttctctca atggatacaa 60
 aatttggeat tatactggct ctatcttgca caagtatgat gtgccatcaa atgcagaatt 120
 atagcaggaa tctcgag 137

<210> 934
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 934
 gaattcgcg cgcgctcgac gttttgtaat aaaaattccc aaccatataat gcacttatag 60
 ggaaacaaag gacccatcgc aaatgttttc catgctgac tccaaagtgg tgagtattatg 120
 tgtgattttt attttgttta tgcctcttcg tattttccga atttcataca ataaatatct 180
 gttactcgag 190

<210> 935
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 935
 gaattcgcg cgcgctcgac aggtccattt catctaagtt gtcacattta tgtgtgtaga 60
 atttttcata gcattcacct tacttacctt tttaatgcca gtgggggttg caatgatagt 120
 ctctgatatt gcagatttta gtgatgtggt tcttccccc cgcctcgag 169

<210> 936
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 936
 gaattcgcg cgcgctcgac cttttccac cgccattcc ctccattttt gcccctcttt 60
 gctggtgct gaatgggctg ctctctcttc accatcatca gcttcatggt tttctttttt 120
 ctttttaaaa ctgtattttt tttgtgcggc actctcgag 159

<210> 937
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 937
 gaattcgcg cgcgctcgac atattgaaa attcaggga tttttaaaat ttatttattt 60
 cctcaaatat atttaaatat tagttctgtt atcttggttt ggctttcttt tttaggtacc 120
 ccaatgatgc atatgttgac tgtgctgtgg ttgtttctg cgcattttat tcttaccagt 180
 cactgttttc agtggtgtct ttttcttact caacattctg caaagtcact cgag 234

<210> 938
 <211> 152
 <212> DNA
 <213> Homo sapiens

<400> 938
 gaattcgcg cgcgctcgac atattatttt acatcattgt ttctgtcctt tttattttca 60
 tttgtgtct ctaatttaga ccttatttac catcacctg gtttatgttc acagtctcct 120
 aaatgatctc cttcataccg ctagtactcg ag 152

<210> 939
 <211> 275
 <212> DNA

<213> Homo sapiens

<400> 939

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gaattcgagg cgcgctcgac catagccttc ctctgtctct actcatgaga ctgcctccat 60
ttcttccttc tgcaaccctg ctcttatcag ctgaaccctt ctttcggagt gttagttagt 120
acccgtctct cccagccccc tcagctgggt ggccctgggtg tgtcagcggc aaatggggct 180
ctgggtccaa tggggccact tcactctctt cttgttcttc gtgcagaaaa cctttgcttc 240
actccactgc cctctctagt tcccgatccc tcgag 275
```

<210> 940

<211> 246

<212> DNA

<213> Homo sapiens

<400> 940

```
gaattcgagg cgcgctcgac caacaacaaa aaaaagactt tattctctgt tgtcagtgtg 60
tggttaaccct tttattgcat ttaatttcta caggtgttag tctactatta tttttgttcc 120
agtatctcat caagtcaaat aagcacagag taagaatttc aaagctagag agggctgaca 180
ataatagaaa acagaaacat actcaatata tactctcttc tctactatgaa gctgggggta 240
ctcgag 246
```

<210> 941

<211> 168

<212> DNA

<213> Homo sapiens

<400> 941

```
gaattcgagg cgcgctcgac atttaattaa tcaattcaag acatttttga tattacagct 60
tttgtcttta ggtggagctg ttaaagttaa ataagtgtga atatctgtca aatacagttt 120
ttgcaagagt gcatgtacat tttatatatt gtaagaaaag ctctcgag 168
```

<210> 942

<211> 205

<212> DNA

<213> Homo sapiens

<400> 942

```
gaattcgagg cgcgctcgac gaagccttct gtaccatttt acgaatttct gtcttcataa 60
tataagttaa aatactgtca tttcaatttt ctgcttttaa ttgtttttaa taagcattcc 120
aaagtgtatc agacttaagc ttttaattca tcagtcattc agttgataga caaagtttagc 180
gatgctttat gctaggatag tcgag 205
```

<210> 943

<211> 188

<212> DNA

<213> Homo sapiens

<400> 943

```
gaattcgagg cgcgctcgac ctgagcattc cagccggggc atctctgtga aatgatgtta 60
ctttattttt cagttttttt cttctcctta tccaggacac atccccacca gacaccagct 120
cctctgccca atccaggcct ctatccccca ccagtgtcca tgtctccagg acagccaactc 180
acctcgag 188
```

<210> 944

<211> 241

<212> DNA

<213> Homo sapiens

<400> 944

```
gaattcgagg cgcgctcgac gaatcatata gtatatagac ttttcagatt ggcttcttcc 60
```

```

acttagtgac atttatttaa atttcctaata gtctttttat agtttgatag ctttttttta 120
ttcttttaaat tttttttttc ctgctgcctc tetaattgca gaaagctcat ttatttttag 180
cacatttcat tttgatattc cattatctgg gtgtaccaga gtttctccat atcacctcga 240
g 241

```

```

<210> 945
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<400> 945
gaattcgcg cgcgctcgac cagggtactac catgtttctg cattggctag tgggaatgg 60
atatgtcttc tactttgcct ccttcattct actactgaga gaggtacttc gacctgggt 120
cctgtggttt ctaaggaatt tgaatgatcc agatttcaat ccagtacagg aaatgatcca 180
tttgccaata tataggcatc tccgaagatt tattttgtca gtgattgtct ttggctccat 240
tgtcctcctg atgctttggc ttctatacgt tataattaag agtgtgctgc ctaattttct 300
tccatacaat gtcatgctct acagtgatgc tccagtgagt gaactgtccc tcgag 355

```

```

<210> 946
<211> 187
<212> DNA
<213> Homo sapiens

```

```

<400> 946
gaattcgcg cgcgctcgac gggaagctta gagcaggaat tcccttaaga cggtgtgata 60
gactctttta aagaaaaaat attcagtcct taacactcgt taaagcatgc aaaggaagac 120
tttattcagg atcatcgtga taggtattgg aagcacagca gtgagatttt gcaatggggc 180
actcgag 187

```

```

<210> 947
<211> 298
<212> DNA
<213> Homo sapiens

```

```

<400> 947
gaattcgcg cgcgctcgac ggaaaagaat cttaatgcag ctatcaagac ccagttggat 60
gtgttttagt ttgtcactac acttaaggag ggcatttttt attttaaacc aaaaggggac 120
agaaagctta gtgaggagt tagaagcctt accctttcaa gaagtgttga tggaaattgaa 180
gacaaaccca ggagaaggga acacgagggt gaggagaaca ggggtggcctt cagacacca 240
ggccaacaca tgtcaagggt tagacttact ggaaaactcc agagcgctga acctcgag 298

```

```

<210> 948
<211> 214
<212> DNA
<213> Homo sapiens

```

```

<400> 948
gaattcgcg cgcgctcgac aaacaaaaca aatttctac ctccaggatcc aaaagatatt 60
atcctatatt gtctcctaaa agttttatag cctagccttt tacatttagg ttcttaattc 120
ttaatccacc tggataaagt ttttgtatat ttttaaaagt agaggtttta tctcattttt 180
cccgatagat atgcaattat ccctgtacct cgag 214

```

```

<210> 949
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<400> 949
gaattcgcg cgcgctcgac tgcagattgg ctccgagccc ctgacacccat gtatttggtg 60
gactttgtga agccagaatt tctcttgctt aggacacttg ctcgatgcct gattttgtgg 120

```

gatgatattt taccaaattc caagcgggtt gacagcaatg ttcctcaaat tataagagaa 180
aatagtatct ctctcagtga aatcgaatgt ctcgag 216

<210> 950
<211> 272
<212> DNA
<213> Homo sapiens

<400> 950
gaattcgcgg ccgcgctcgac agtatctgtt tcttttaaatt ggagcaggac tttacaatga 60
ttacaaaatc attctatatt actttttttt tattccagcc ctttacagct gtctcaccta 120
ttcataattc agtagcagct ttttcttttaa gatactcacc ttttttgcac tcatgtttca 180
ctagtttatg cagtaattta gataatttag ttactagcgt gagtacacct accacaaaca 240
acatgggaat aaacaaaacc gaatcactcg ag 272

<210> 951
<211> 224
<212> DNA
<213> Homo sapiens

<400> 951
gaattcgcgg ccgcgctcgac atataagagc acgttgtaaa cttgaaagag acaaaggcac 60
aaatgtggct gttgattaat ttgactgctt ctctgtgctc gtcacctcca tgccatgcac 120
tgtgtttgct aattgcttta tggggggcatt ctcttattta ttccccagcc ctgggaaata 180
ggagctgtca ttatccttct ctttctgcac aaggaaaact cgag 224

<210> 952
<211> 164
<212> DNA
<213> Homo sapiens

<400> 952
gaattcgcgg ccgcgctcgac ggggggagcag gataaaagcg gtctttcagt ttttattata 60
tgtcattctc ctatgttttt caaatcatta ttctatgtct cttctcagta aggcctatcc 120
tgaccaatc atctaaaatt acaacttccc accacactct cgag 164

<210> 953
<211> 210
<212> DNA
<213> Homo sapiens

<400> 953
gaattcgcgg ccgcgctcgac gcattttgtg ttttctacg tggtcattt cagccaggta 60
tagttttctg tgttcacctg gtatttctta cagacaaaaa tcatgaaaaa gcgaatgcaa 120
aatttcagta tgttcaaatt gtttcttagt atatcggttg ctttgggaatg catttgcatt 180
ctcaaaaaca gcttcacagc aaaactcgag 210

<210> 954
<211> 191
<212> DNA
<213> Homo sapiens

<400> 954
gaattcgcgg ccgcgctcgac ataaaattac gtcattatct atttggtcat tcattcaaca 60
aatttttgat gaagtaaaat aatagtataa gcataacaac tgctatttat tgaacactta 120
atatgctcca ggttctaata tacatacttt actggctgta tcttacacaa aacacacaac 180
aagcactcga g 191

<210> 955
<211> 195

<212> DNA

<213> Homo sapiens

<400> 955

```

gaattcgcg cgcgctcgac atttcttatt agccaatatt tattaagcat cgcgtgagaa 60
ctttcctgtg cattgggctt acgggaggat tttttttgct taagtgtgat tacactgcc 120
ttcttgaact tgttcttcac ttaggagaaa caatttgagg gtaatatgaa cagaatattt 180
gtgagcatac tcgag                                     195

```

<210> 956

<211> 231

<212> DNA

<213> Homo sapiens

<400> 956

```

gaattcgcg cgcgctcgac ctacttacta aattgagttt ttaaaaagac ttagtgtgac 60
atttgacagt gtctttcaaa cgaacttctc taacaagttt atagtatttt tctgtttca 120
acactattag aagtcttata aattatgcta attagcatgg cagtcatgtt acacactctt 180
aacattgcc aagaactgtt gatttcgttt gagaaaacc caggactcga g          231

```

<210> 957

<211> 214

<212> DNA

<213> Homo sapiens

<400> 957

```

gaattcgcg cgcgctcgac cgagatccac ggctgcatcc cctacgaacc ccatgaaatt 60
cctgagggaat aaagcaataa ttcggcatag acctgctctt gttaaagtaa ttttaatttc 120
gagcgtagcc ttcagcattg ccctgatatg tgggatggca atctcctata tgatatatcg 180
actggcacag gctgaggaaa gacaacagct cgag                                     214

```

<210> 958

<211> 183

<212> DNA

<213> Homo sapiens

<400> 958

```

gaattcgcg cgcgctcgac taattacctg aagctttagt aataaagaac taattttttt 60
tgtcagttac cacatthttgt ttttagcttt aagaggttag tagtgacaaa tactgaggct 120
aaagggttaag caagatttcc aggtttacag agatattaat taatctggat gaggtcttct 180
gag                                     183

```

<210> 959

<211> 199

<212> DNA

<213> Homo sapiens

<400> 959

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gaattcgcg cgcgctcgac atttgcggtg actgtggatt tctctctgcc tttggaacat 60
ttgtgcaagg atgagagggg atagtttaga tctcttaact gcatatgctg taggttataa 120
agccacagta atgtgtttcc tttgcagttg tgccttctat tcttgctcc agactagctc 180
tgatagggaa gctctcgag                                     199

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<210> 960

<211> 195

<212> DNA

<213> Homo sapiens

<400> 960

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gaattcgcg cgcgctcgac ctttttttaat actatgaaga aaccaaggca gaattacgac 60

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ctctggttct ttttcttttt ttctttttta gacagggttc gttctgtcgc cctagctgga 120
 gtgcagcggg gtgatcacag cacactgccca cctccacctt tgaggctcaa gcagtcctcc 180
 catctcaagc tcgag 195

<210> 961
 <211> 161
 <212> DNA
 <213> Homo sapiens

<400> 961
 gaattcgcgg ccgcgtcgac ctcaaattta aaaaaaaaaa aaagaagaag aagaaaacta 60
 gtgggaaaaa agtgagagga atactttttt gaaattggta tcggaaggaa ctggagaaga 120
 gaaaacaaca gtgccaaatg agaaaagaac agttcctcga g 161

<210> 962
 <211> 252
 <212> DNA
 <213> Homo sapiens

<400> 962
 gaattcgcgg ccgcgtcgac caaagagtct tgaattcttt tgttttccca gtaccaaatt 60
 tacttttagtt ttatctatga aatgggtgata aacttttcgtt gtaagtatca tttgatagca 120
 ttgaagtatt taactttttt gttggagcca gagtctcagt ctaggtttga gtatagtggc 180
 gccaccggct ctatcttagc tcaactgcaac ctccatctcc caggttcaag cagttctcat 240
 gccttactcg ag 252

<210> 963
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 963
 gaattcgcgg ccgcgtcgac tgctttgtgg acacagattt tcagggagat ttaggggaga 60
 gaaacttacg agtgaatgag atacttttatt ctaaacagtt tgaatgtcat tgtgattttt 120
 ttgtcttttag ttgatgatgg tgaggctctc gag 153

<210> 964
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 964
 gaattcgcgg ccgcgtcgac gccaatcctt ttttttttca gggccaattc ttaatacatt 60
 ttaaggattt gtgaacagat gggctgcact gcatttgggt tgatcatgat gttctattct 120
 agacaactaa gaatgtcaaa aagcttccta tcttatgaca actccagtc agtgatggcg 180
 gctacttgga gcaactgggtt agaaagaaaa ctcgag 216

<210> 965
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 965
 gaattcgcgg ccgcgtcgac cctaaacat gttaccagggt cttatccatt ccccgttaat 60
 ttgcaccacc cccaaacact acattcgtct tggctcacc tttatccctg agagacgtcg 120
 aaggccctct ctgcctgatg gcacattcag ctctgtgaag aaggatgtc tgtgtttttg 180
 tgtgtgtggt gtgtttatgt gtgtgtgctt tattttttta agcctaagat tccagctcga 240
 g 241

<210> 966

<211> 252
 <212> DNA
 <213> Homo sapiens

<400> 966
 gaattcgcg cgcgctcgac ggaaaaggaa ttctccaaaa aggtgaccca gagcatttgt 60
 ttgaccag ctttgccctgc ccaactgagtt cctttgacca gggttgcctg taaatcttcc 120
 agggagattt caacacttgt ttgtcttaaa tactttctgc tatcatctca ttgccatcca 180
 ctcttcttcc aggtcttga tatattttgg aaagggtatt agatgaaact ctattttgct 240
 gtggtactcg ag 252

<210> 967
 <211> 140
 <212> DNA
 <213> Homo sapiens

<400> 967
 gaattcgcg cgcgctcgac atagctttgt agagtgaat cgactctaa agtgggtgtcc 60
 tgccccagat tgccaccatg ttgttaaagt ccaatctcct gatgctaaac ctgttcgctg 120
 caaatgtggg caatctcgag 140

<210> 968
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 968
 gaattcgcg cgcgctcgac attaattatt gctatgtctt ttacttctt ttattttcta 60
 tcttcatgga ttaatttttt ccaaagtatt ccagaatctg ccacacacct accattcatt 120
 ttttcccacc aaatgctcag ttgtgtcagg ccatctgtcc attccccctg caccctcgag 180

<210> 969
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 969
 gaattcgcg cgcgctcgac atcctactat gttgacagac atgatgaaag ggaatgtaac 60
 aaatgtctc cctatgatcc ttattggtgg atggatcaac atgacattct caggctttgt 120
 cacaaccaag gtcccatttc caetgacct ccgttttaag cctatgttac agcaaggaa 180
 cgagctactc acattagatg catcctgggt gagttctgca tctgtgtact tctcaatgt 240
 atttgggctt cggagcattt actctctgat tctgggcca gataatgcg ctgaccaatc 300
 acgaatgatg caggagcaga tgacgggagc agccatggcc atgcccgcag acacaaacaa 360
 agctttcaag acagagtggg aagctttgga gctgacggat caccagtggg cactagatga 420
 tgtcgaagaa gagctcatgg ccaaagacct ccacttcgaa ggcattgtcc tcgag 475

<210> 970
 <211> 133
 <212> DNA
 <213> Homo sapiens

<400> 970
 gaattcgcg cgcgctcgac ctccaatcct tccatgcat tccccctct tctcctact 60
 atacaggtgt ccctgccctg ccagcccaact gggcaacttc ccccatctcc ctatacctcc 120
 aaacactctc gag 133

<210> 971
 <211> 132
 <212> DNA
 <213> Homo sapiens

<400> 971
gaattcgcgg ccgcgctcgac ctgatttttc ctctacata gttgtatgtt gttatttttag 60
cttgccttttt tatgacagtt tcaggcacat tttatatgtt aattaagcat gcatatagcc 120
agctttctcg ag 132

<210> 972
<211> 188
<212> DNA
<213> Homo sapiens

<400> 972
gaattcgcgg ccgcgctcgac tctgacaatc agtttatgtg aatacatgtt ttatggatta 60
aaatattaga ttattattat atcctctaaa tgaattggct tggtatcgtt atgaaatggc 120
ccccctttatc cttagtaatt tttttttgtt ctaaaatgtc ctttggatatt gatgcagccg 180
tgctcgag 188

<210> 973
<211> 156
<212> DNA
<213> Homo sapiens

<400> 973
gaattcgcgg ccgcgctcgac gtgagatgtg agattgaaaa agtgtaagat gtcagttaag 60
attacaataa aaactggaag tatattcttt tttcttttat cgttattata tttatatattt 120
ttcaagacag ggtcttgctc tgtccccaga ctcgag 156

<210> 974
<211> 189
<212> DNA
<213> Homo sapiens

<400> 974
gaattcgcgg ccgcgctcgac atctacctca gttaaacagt tgggtgctat tactaagtct 60
gtcaaattaa attggaaaaa gtaaccaaac agtgagatac aactccacat gaaacttgaa 120
attgtaattt ccgtttattt aatgatattt ttattttatt gtgcctttta tgttgaaccc 180
cttctcgag 189

<210> 975
<211> 175
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (56)

<220>
<221> unsure
<222> (82)

<400> 975
gaattcgcgg ccgcgctcgac ttattgtatg atttattttg gagttatatt ctgatnacag 60
tgctccctct cccaaatagc antgattttt tccccctct aaaatgtata atctggctct 120
aggttggatt ctttggtaaa tttctctct ctggatgccg tgcagcgcac tcgag 175

<210> 976
<211> 223
<212> DNA
<213> Homo sapiens

<400> 976

gaattcgcg cgcgctcgac aaattttagt tgtcccgga gttcttttgt atctgaaacc 60
 tcagttgtca agcttggaaa tctgtacttt taaaatatcc tcaagcgatt ctgattacac 120
 atcaggtttg gaagcacttg gcataaagaa cttcccccac ccaattcaaa gaaatagtat 180
 ttaagccctc ataatgtgca gtgtgggttaa actgtgtctc gag 223

<210> 977

<211> 173

<212> DNA

<213> Homo sapiens

<400> 977

gaattcgcg cgcgctcgac gaaatgctct gctctcttct cttttccttg ctgtccctgg 60
 ggctggagga gcacgggct ccccgagggt gggtctcagc ctccctagac tctgtctctc 120
 ttccaagggc taggcctggg ggaccagaag caagagtccc aagcgtctc gag 173

<210> 978

<211> 148

<212> DNA

<213> Homo sapiens

<400> 978

gaattcgcg cgcgctcgac attggtacca ggcacttaca aagctaaatt ttccgatgtt 60
 cctttcacca gcatactctc ttctcagttt attcattgat gcagaaagca ggcagctggt 120
 caccgggtgt gctgacggcc aactcgag 148

<210> 979

<211> 224

<212> DNA

<213> Homo sapiens

<400> 979

gaattcgcg cgcgctcgac atttattaat ctaggaaagt taaatagtcc ctgaaacaa 60
 aaatttttag ctgaatttat tgaaattata ttgtttaaatt gattacaatt tgaaaatact 120
 ccgtgtttga tgttaggctg aacatgaaaa ctttttattt gaatcagatt tttttttttt 180
 taagttttgt ccatcaacta aaggcacaaa cagacgacct cgag 224

<210> 980

<211> 135

<212> DNA

<213> Homo sapiens

<400> 980

gaattcgcg cgcgctcgac cgactttatt aaatctatga aaaatattta tattattgga 60
 ttattatggg ctgtctcgac atggactatg gcggatacag tcgtaactga taaagcaaca 120
 acggtacaac tcgag 135

<210> 981

<211> 234

<212> DNA

<213> Homo sapiens

<400> 981

gaattcgcg cgcgctcgac ttctagacct gcttctttta ggcatactat attcatgcta 60
 ttaagggtaa ttgtgagat gcgagtaaat ttctttttct ctctctgttc atcaattgct 120
 ctctttttct ctatactgtc caaaccaggc actgctttcg atctccgtgg ttcatttaat 180
 ctctttttctg attttctcatt tccaaattct gctcacgacc cccacactct cgag 234

<210> 982

<211> 189

<212> DNA

<213> Homo sapiens

<400> 982

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gaattcgcg cgcgctcgac ctctgacaaa tagctcagga tgagtggag aaaatgggct 60
ttgatgtctc tcacaactgc agtgggaatt ttaggaggga caatttgcca agaagatggg 120
gcaggatttg aaaggatttg ggaggatggg gagtgggtg cagagaaagt tgtagggaagc 180
gacctcgag                                     189

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<210> 983

<211> 211

<212> DNA

<213> Homo sapiens

<400> 983

```

gaattcgcg cgcgctcgac ttgaattcta gacctgcctc gaaaagctgg agagctgaca 60
aggaagggtt cgagcgtttt gctggcaaag ggatttctta caacctccag gcatgcgtct 120
ttctgccctg ctggccttgg catccaaggt cactctgccc cccattacc gctatgggat 180
gagcccccca ggctctgatg gcagactcga g                                     211

```

<210> 984

<211> 185

<212> DNA

<213> Homo sapiens

<400> 984

```

gaattcgcg cgcgctcgac cgcattctgtc gagcaatggt gacaattctca tcaaaagtga 60
tattcccact gtgtttaatg tttttctgtt tctttctgtc tcttgggtgt tccttgaggg 120
ctttgatgat cagggcagag gcagaaggca ccaccaagag acagaaagaa acagaaaaac 180
tcgag                                             185

```

<210> 985

<211> 291

<212> DNA

<213> Homo sapiens

<400> 985

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gaattcgcg cgcgctcgac agaacctgga aaaattaacc acatgagata cgatacacta 60
cccagatgt tgacgttggg aaatatccgt gctggcaaca aaatgattgt gatggaaacg 120
tgtgcaggct tgggtctggg tgcaatgatg gaacgaatgg gaggttttgg ctccattatt 180
cagctatacc ctggaggagg acctgttcgg gcagcaacag catgttttgg atttccaaa 240
tcttttctca gtggtcttta cgaattccct ctctacaaag tggcactcga g       291

```

<210> 986

<211> 152

<212> DNA

<213> Homo sapiens

<400> 986

```

gaattcgcg cgcgctcgac gaccacccag gtaatccaca agattcttaa ttatatctgc 60
aaagattcct ttttcaaag agaccatctt tacagattct ggtgattagg atatggctat 120
atctttttat cttttgttgg gggaatctcg ag                                     152

```

<210> 987

<211> 235

<212> DNA

<213> Homo sapiens

<400> 987

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gaattcgcg cgcgctcgac cattataggg tgactgtaag actcaaatag agccactgcg 60
cccagcctag gaagccctaa gttttaaaaa ctttttaaag tttaaattaa gcaaagagct 120

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tcattcaaaac attttaaattc ggcaaataag tgctattaca gagatgcata gatttggttt 180
tcctttttctt actttccctc tcttctctct tccttccctt tcctccccc tcgag 235

<210> 988
<211> 171
<212> DNA
<213> Homo sapiens

<400> 988
gaattcgagg cgcgctcgac ttctattaat ctttaattccc ccattttgtt tctgtgatct 60
gctatgacat tacaaaaaaa attgggtttat ctttcttctt tcgttttcca gtgcctttat 120
tgcatggaac agtatccctt gcacccacgc ttcaccccggt ttagtctcga g 171

<210> 989
<211> 174
<212> DNA
<213> Homo sapiens

<400> 989
gaattcgagg cgcgctcgac ctcaaaattt ttgttttttg ggctccgttt tgttgagggg 60
ggctgttttg agacccagtt gctcatggtt ttaattctga cacatttaag tgggtgtttg 120
ttttgtttgt ttctgagggt tggggttggt ctctgttgcc caagctatct cgag 174

<210> 990
<211> 207
<212> DNA
<213> Homo sapiens

<400> 990
gaattcgagg cgcgctcgac gcctgtccct cctccgtaat agctcagcac ctcacacatg 60
cttccgactc agcctgtgct ttgcaactt atttgcttac ctattttctt tcccactcc 120
tccatgactt tgtggaaggc aaggacttta tctcaggatt tctctatcac cagacctagc 180
ttggggcagc aaagcaggct cctcgag 207

<210> 991
<211> 169
<212> DNA
<213> Homo sapiens

<400> 991
gaattcgagg cgcgctcgac attttgtgtt ttgttttcca ttcattctca agtattttct 60
aatttccctt gtgattttct ctttgacccc ttgattgttt agaaatctgt taatttccac 120
acatttgtaa atgttccaat ttttcttttg ttattgccag ctccctcgag 169

<210> 992
<211> 181
<212> DNA
<213> Homo sapiens

<400> 992
gaattcgagg cgcgctcgac cctaaaccgt cgactctagt cagaagttat ctgagcaaag 60
agaaaaataa gcctggcgta gacagtccca tagaaaatag aatccatagc cactgggctg 120
cccttcaatt tcccaattca ttccactaag tctcatgatg caaatctgtc actttctcga 180
g 181

<210> 993
<211> 355
<212> DNA
<213> Homo sapiens

<400> 993

gaattcgcgg ccgcgctcgac gtggctctgt aatgctaaca agaagtctga aaacctgccc 60
 aagcgcctgt actgcttttt tgettctctt tttttctgtt ctgcgcggg gatcccgagc 120
 tgtcctgcag ctgtacctcg agaactcaga gcagttggag ctgatcaca cccaggccac 180
 aaaggcaggc ttctccggtg gcatggtggt agactacct aacagtgcc aagcaaagaa 240
 attctacctc tgettgtttt ctgggccttc gacctttata ccagaggggc tgagtgaaaa 300
 tcaggatgaa gttgaaccca gggagtctgt gttcaccaat gagagagtcc tcgag 355

<210> 994

<211> 249

<212> DNA

<213> Homo sapiens

<400> 994

gaattcgcgg ccgcgctcgac ctgcaatggc tgggtaaaat tatttcatt ctgaaaaatc 60
 aagaacaccc ttcatatacc attcttcgcc acttccctcc tcccaaac ctaaaataat 120
 acaactcagg ccgggcacgg tacaatttaa tttaacacat cttttgataa tctcatcctt 180
 ggtgttgga aagacgggaa aatccaaaag tgtctatttt gtgcccaat gctcaagtta 240
 atactcgag 249

<210> 995

<211> 346

<212> DNA

<213> Homo sapiens

<400> 995

gaattcgcgg ccgcgctcgac cttttctgct ctgttttgtt ttcctgcct gttgcgtgca 60
 agggaaagtgc ttgtaaagt ctgtgctacg agatttttaa aataaaaaatc gcttcgcagc 120
 aggttctcac aaaataactg gtgctagctc aagaatcat catctgacca tcagaaatct 180
 tgactaaagg tgttgcatgg atttgggggt ctttcggttt ttggttttgg gtctggcttt 240
 tagcagggcc aatgtttccc acaccccggc ttcattggga ctgctttgcc ttctcaccaa 300
 ggtgacgatg gtgtgcgtgg aaagagatga taccacccc ctgcag 346

<210> 996

<211> 147

<212> DNA

<213> Homo sapiens

<400> 996

gaattcgcgg ccgcgctcgac gctttgatgt atagattaca ggtttcatca accttccaaa 60
 gctttcagcc attgtttctt caagtatttt gttttctac tctttctctt ctttctctt 120
 ctaattgctca ttaccggtat gctcgag 147

<210> 997

<211> 329

<212> DNA

<213> Homo sapiens

<400> 997

gaattcgcgg ccgcgctcgac aaattattaa gggtaagta aggagtttta aataccaata 60
 aaatcttatt tataacacca aacctcagaa gtccttcctc ttggcaatag ttttattgta 120
 ttggtttaat ctgatattta atcttctgta ttatagtaag ctgaaaccaa aattgagaca 180
 tgattgtttt atgtttgttg ctattatttt tgaatttttt tttttttttt ttaagacaag 240
 gtcttgetat gttgcccac tgccctcaaa ctctgagct caaagtgate ctcccacatg 300
 ctctccccc atcacatcac agtctcgag 329

<210> 998

<211> 293

<212> DNA

<213> Homo sapiens

<400> 998

gaattcgcg cgcgctcgac atatttttcta ataaatactt gagcggtttt tgtctggcag 60
 gcttccaaat ttgccaaaat taagcggtca gtattttcaa cacatacgct ttttactggt 120
 ttatactgaa ctatctgatg agaattcctg tgttcccaaa gcaactgatg tttacagggtc 180
 ttgtgtttct ctcctcctt tctaaggatg aggggaatcca caacagactt tctctagaaa 240
 acactaatga tggacaactt tttggtgtca tcaatgagtt ggctactctc gag 293

<210> 999

<211> 158

<212> DNA

<213> Homo sapiens

<400> 999

gaattcgcg cgcgctcgac cttattcgct gaactcaggc atttccactt gcatgtccca 60
 cagttgagtc aggaccata atttcttctt gctttcccat gctattcctt tccttattga 120
 caaatgccat catcttttct ctcactgcgc cactcgag 158

<210> 1000

<211> 152

<212> DNA

<213> Homo sapiens

<400> 1000

gaattcgcg cgcgctcgac tttttaaatg aggttatatta aatgttaaag aaagttttag 60
 tggtcgcatt attgggggta tcttcaactg catttgcagg aggttttcaa attaaagtgg 120
 gtgcgagttt aattgaccca acagcactcg ag 152

<210> 1001

<211> 196

<212> DNA

<213> Homo sapiens

<400> 1001

gtgactctca tctattaacc taagccagaa atcaaggagt catttttagat acttccttcc 60
 actccttacc atctggtcag ttcctaataa aatgatggtc attttcctaa tttttctact 120
 tgtctctaaa tttactgcat atgattccat tcccttgat actgctagag tgaatagtca 180
 cctcagcaac ctcgag 196

<210> 1002

<211> 311

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (280)

<400> 1002

gaattcgcg cgcgctcgac aactttttca gcaactaaaa aagccacagg agttgaactg 60
 ctaggattct gactatgctg tgggtggctag tgctcctact cctacctaca ttaaaatctg 120
 ttttttgttc tcttgtaact agcctttacc tctctaacac agaggatctg tcaactgtggc 180
 tctggcccaa acctgacctt cactctggaa cgagaacaga ggtttctacc cacaccgtcc 240
 cctcgaagcc ggggacagcc tcaccttget ggccctctcgn tggagcagtg ccctcaccaa 300
 ctgtcctcga g 311

<210> 1003

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1003

gaattcgcg cgcgctcgac gaggaatggt agtattctct tatgaaatag taagtttgtt 60
 atcatttgca gttttctgtt tatggtctgt cagagcagtg acttcagagg ggcaacctgg 120
 acagttgact gctcccatca ccaaaaccaa actacacaca cacacacgtt cccaaactgc 180
 accaaggcac cccaaagcac cactcgag 208

<210> 1004

<211> 223

<212> DNA

<213> Homo sapiens

<400> 1004

gaattcgcg cgcgctcgac agtttttggg ctgtgaattt aatgttttag gaagttccca 60
 ttttaagattc tttaaaatgg tttcttctgt tgtgctttta ttcttttata ttaaaatctt 120
 tgatttatct aaaattactt ttgtgaaaga gtggtatagt gagaatagct ttttagagaa 180
 aaccaaaca aatggtttga atatttgtcc caacactctc gag 223

<210> 1005

<211> 166

<212> DNA

<213> Homo sapiens

<400> 1005

gaattcgcg cgcgctcgac tgggcattac tatgttagtt ggaataactg gactctttta 60
 cactcaacta attggcatca tcacagatac aacatctatt gaaaagatgt caaactgttg 120
 tgaagatata tcgaggcccc gaaagccatg gcagcagcac ctcgag 166

<210> 1006

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1006

gaattcgcg cgcgctcgac gaacaacgtg ggctttcatg atgtatgtac ctttctcttt 60
 cttttgttgc atgtggggga cagtattgct tcaactaatg tttattactt taaaacacga 120
 aagggtatgag gaagtaaacc aaaacagtcc acagtcttca aacaggaccc tcgag 175

<210> 1007

<211> 191

<212> DNA

<213> Homo sapiens

<400> 1007

gaattcgcg cgcgctcgac gggaaaacaa agaaacaaac tataaaagaa agcaaagaaa 60
 atctttgtga tttgggtgca gagataggac tccaaaaaca taagaaaaaa actggtaaac 120
 tgaataaatt gataaactgg acttcacaaa aattaaatac atttactatg aaaaaaacag 180
 tgctactcga g 191

<210> 1008

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1008

gaattcgcg cgcgctcgac ccaggatttc aactatactc atccacagac ttttccatt 60
 gggtagaaat tgaaacagaa ctgacagaac caggatttga ataccagcct tttgactcca 120
 aatcaggggac aagatgcagt tttgtatgtt aattattttt attgggtttg atattgtggc 180
 cccactcgag 190

<210> 1009

<211> 245
 <212> DNA
 <213> Homo sapiens

<400> 1009
 gaattcgcg cgcgctcgac ttcaatctct agaggtttgg cagttttctt ttatcaaatt 60
 ctccccttaa taagctgcag cctgtgaatc tcaaaataat ggaagtttta aaaacagaaa 120
 gaaaaagatt ttatttttta tttttttatt tttatttttt taagacaggg tcttgctctg 180
 ttgccagga tggaatgcag tggcacaatc ggggctcgct ggggctcaa tctctggggc 240
 tcgag 245

<210> 1010
 <211> 183
 <212> DNA
 <213> Homo sapiens

<400> 1010
 gaattcgcg cgcgctcgac tgaagttctg aaaaaaattt taggagattc ctg:tttcta 60
 ggggtgctgaa gaaagactac ttaaaatcac tatttaatag tacagtaaag aggagatacc 120
 tgtattttga actttgcata aaattgatgt ttctttatgg ttaaatttag attaatactc 180
 gag 183

<210> 1011
 <211> 141
 <212> DNA
 <213> Homo sapiens

<400> 1011
 gaattcgcg cgcgctcgac ccagactctc atatocatgg ctttcttgtt ttataaaata 60
 gtataacttac tgtgccttaa acagaacttg gatccccctc atttccacta cattctctc 120
 tgtcctcgta aggacctcga g 141

<210> 1012
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 1012
 gaattcgcg cgcgctcgac cttgtatgtg tcatttgagt ggtttccaga ttggagcgag 60
 gttattctga tctaaatgaa cagcattttt ttcttagcc tctgtttgcc actctgggta 120
 tctctcctat gggcaaagcc attagaaatg catccactcg ag 162

<210> 1013
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 1013
 gaattcgcg cgcgctcgac atctttttcc tgtggctgct tcaaaaactt tgtctttgag 60
 caatattact attatgtgtc tagatatagt ttcttttttt atccagcttg ggattcttag 120
 aaattcttca ttttgtagtt tgatgtcttt tgaaagtttt ggaaaattcc cagtcagaat 180
 atcctcagat catgtttcta tcccgaattc tctcgag 217

<210> 1014
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 1014
 gaattcgcg cgcgctcgac actgatatac gatagacagc acatatataa aacgtaaaat 60

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ttgataagtt ttggcatatg tatgcacatg caaaaccatc accataatca agaccgataa 120
catacccatc atccataaaa gtctcttcct gtccctttgt attcccttat taagaaacta 180
ctaaatgttt aagtatttgt gctattttcc attcctatca gcagtacatg ataattctcc 240
ttgttccata tcgtctgagc tcgag                                     265

```

<210> 1015
 <211> 127
 <212> DNA
 <213> Homo sapiens

```

<400> 1015
gaattcgcg cgcgctcgac caaggacttt ccccatgtga agtcttcagc agacgagcca 60
cacagttcca agtacatctt aagaagcaca ctctagatgc agaatagaaga ttcactattt 120
gctcgag                                     127

```

<210> 1016
 <211> 231
 <212> DNA
 <213> Homo sapiens

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<400> 1016
gaattcgcg cgcgctcgac gctgggctag ttttaagggt tttaaacagg cattgagaca 60
tctataatgg tcttgcctgt tttggatctg actcaaactc agccctgcct tctatttttc 120
tttctttttt tttttttttt gaggcagctc tactgtatgg ccgaggctgg agtgcagtgg 180
catgatcttg actcaatgca acctgtcttt cgggttcaag tgattctcga g          231

```

<210> 1017
 <211> 209
 <212> DNA
 <213> Homo sapiens

```

<400> 1017
gaattcgcg cgcgctcgac agcttaatcc tttctagctt ctgatttaaa gtgagagaca 60
tgagactctt cctttcactt gtatacttag gggccattgt cgggtttatc attagcttaa 120
tttcaatatt gttgtgtctc aggagtagga atatccaaag agagggagaa agacttgggg 180
agcagctggg cagtgggaaca actctcgag                                     209

```

<210> 1018
 <211> 205
 <212> DNA
 <213> Homo sapiens

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<400> 1018
gaattcgcg cgcgctcgac ataacccttt aatgggtccc tatgccccag gattaagtcc 60
aaacaccatg gtgtggcatg tgagaaagtc ttcctttgtc tggtctctgc agctcttcag 120
cttcactctc tgccactctg tcactctctg gtccccagtg catgtcccat ggacacagtg 180
tgcagtcata cccccaattc tcgag                                     205

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<210> 1019
 <211> 218
 <212> DNA
 <213> Homo sapiens

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<400> 1019
gaattcgcg cgcgctcgac cttcatcccc accttccttc tcactctctc tacagtttga 60
tgctgctggg caatttcate cacttcctag gcttcagttc tcaaccatct actgatgatg 120
actcccaaat gtttatccct gccctgaact cctaccctgt atgtctttct gaataataacg 180
ctcttaatcc caactgttta ttatactcat ctctcgag                                     218

```

<210> 1020

<211> 259
 <212> DNA
 <213> Homo sapiens

<400> 1020
 gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctagacctgc cattcaaccc 60
 ccctcatcac actctcacac tttctgagct gagatccaca gtaaggaata cactgtttca 120
 tcttcgccct aggcacatac tctcatccgc agctgaaatg cagtttcaga atgtgaatcc 180
 ttatttcacg ttctgtgtgg tgatgttttc tgtttctctc cttgcctcct cctcagcatt 240
 ggctacacac ccactcgag 259

<210> 1021
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 1021
 gaattcgcg cgcgctcgac gccatagga gttgaaaaat cctgctgctc tcagctatat 60
 tttttctcc attatttata aatgtttgct tttaaactga ttttatttc cattctccc 120
 tggagttggg ccagggggaga gtgggggtgg aagacagatc tcgag 165

<210> 1022
 <211> 195
 <212> DNA
 <213> Homo sapiens

<400> 1022
 gaattcgcg cgcgctcgac ttttaagttc tagagatcgg gtctcgttat gttgcctagg 60
 ttgattttga actcctgggt ctgcctcagt cttccaaaat gttgggatta caggcatgag 120
 ccaccttgcc cttcccgaaa ctgccaatatt gttttccgta atagctgcat catcttacat 180
 gccctgtgc tcgag 195

<210> 1023
 <211> 143
 <212> DNA
 <213> Homo sapiens

<400> 1023
 gaattcgcg cgcgctcgac aatcattcca acaatatttc tgtgattgtc tgtaacgaac 60
 tactttttct gatttttgat cagtgatctt tgactataat agaaaagaaa gtttaaatgt 120
 tatggaaggt gctggggctc gag 143

<210> 1024
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 1024
 gaattcgcg cgcgctcgac caggaaagca ttgaattaaa ttatacagta ccattttctc 60
 aggtattgag ctaaaagagaa tggagctaaa attgcccctgc tgtcttgta ttaccctatt 120
 tctaattctg tcattttctt tccaaaaaac tcacgcatat ctcgag 166

<210> 1025
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 1025
 gaattcgcg cgcgctcgac attggaaata tcattccagac agaaagtCag caaacatctt 60
 acttaatctg cagtacagac caaatggacc taatagacat ttacagaaca ttttatccaa 120

tggtcgaga gtacacattc ttcagctcat ggatcattct cgag

164

<210> 1026

<211> 139

<212> DNA

<213> Homo sapiens

<400> 1026

gaattcgcg cgcgctcgac tgacattatt atcaattaac attttacttc cttctagctc 60
tctacatttt cattttctca tctcataaat ctcattccct atgatttttt ggtggggatg 120
tgttacttac ggactcgag 139

<210> 1027

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (42)

<220>

<221> unsure

<222> (56)..(57)

<220>

<221> unsure

<222> (61)

<220>

<221> unsure

<222> (64)

<400> 1027

gaattcgcg cgcgctcgac caaataccct ggttggttg tnacaagaaa gaattnnngc 60
ntanctcaga tacaaaagtg gaaaaagaaa cggctataat ccatggggaa gactttctat 120
ttcttagtct gtctcctgtc ccaaatagtc cagctctcct caccctaaact cgag 174

<210> 1028

<211> 169

<212> DNA

<213> Homo sapiens

<400> 1028

gaattcgcg cgcgctcgac gtatatgtta attgagacaa gcagggttgta aaatgacctt 60
ctcttcccat tcttctcatg ttgtctctca aaaagatata cttcttttct tcttttttct 120
ttttcttttt tttagatatg acagactctc tctgccaccc agactcgag 169

<210> 1029

<211> 265

<212> DNA

<213> Homo sapiens

<400> 1029

gaattcgcg cgcgctcgac gaggcttttag agttttcttag gtgaacgata atatcatcca 60
tcagcaaaca gtgagtttga cttctctcct aatgatttgg atgcccttta tttctttctc 120
ttgtctgatt gctctggcta ggacttccag tactatgttg aagaggagtg gtgacagtgg 180
gcattccttg ctagttccag ttctcagagg gaatgcttcc aacttttccc cattcagtat 240
tttgttggct gcaggccatc tcgag 265

<210> 1030
<211> 223
<212> DNA
<213> Homo sapiens

<400> 1030
gaattcgcg cgcgctcgac ctgagtcgtc taaaattctg cattacagtt gcgattatct 60
tcctttgata ttacaatttt gatttatgtt ctttataaca cttgtatctt tccttattac 120
cacatcaata tatattcatt gtggaaaact atgtaaaaat gcagaaaaga atacattaaa 180
aaataaaaaac tcctgcattt tactccttac tgatactctc gag 223

<210> 1031
<211> 135
<212> DNA
<213> Homo sapiens

<400> 1031
gaattcgcg cgcgctcgaca aagcttctga gctcaccaaa caaggatttc agtgtagatt 60
ttgtctttct tgaacttaaa gaaacaaatg acaaagtctg aatggaaaag cctgctgttg 120
ttccccacgc tcgag 135

<210> 1032
<211> 186
<212> DNA
<213> Homo sapiens

<400> 1032
gaattcgcg cgcgctcgac cccggctttt cttggagccc aagagtttct tgagtgtgca 60
gagaaccctt ctatcatgaa gactttatct agagtcgggc tagggttgtt actgccttta 120
ccaggcttcg tattcccttc ctctgtgtct ggctacactt ctacagtttc tggccactta 180
ctcgag 186

<210> 1033
<211> 165
<212> DNA
<213> Homo sapiens

<400> 1033
gaattcgcg cgcgctcgac gaaaaaaaaa gtgccttttg ctgctttaaa gaattgggggt 60
atatggatat aagcagccat gtacttgat tttcctggc tttcctggc actcttctct 120
cttggcagat gttttcttaa agtgaacaca ccagaagcgc tcgag 165

<210> 1034
<211> 259
<212> DNA
<213> Homo sapiens

<400> 1034
gaattcgcg cgcgctcgac ctttgatcca tggaaacatt ttataaaata atttccaaaa 60
taatttcctg gaaatctgga attgtagtct gtaccaaatt gggattatct attaatctaa 120
tttaatttaa tttatgagat cagagtcttg gtatgttgcg ttggctgggc tcgaactcct 180
aggcttgagt gatccttctg cctcagcctc tctagtggct ggaactgtaa gtgcacacca 240
ccatggcaca aatctcgag 259

<210> 1035
<211> 205
<212> DNA
<213> Homo sapiens

<400> 1035

gaattcgcg cgcgctcgac attatttgcg gtccttttga attcatttgc ctttttcaga 60
ttgtggggca ttgccttggg aatactaaca ataatacaata atatcagtcg gggataaaga 120
cacagataaa ttgcatggaa aaaggatggg ggggggatcc atttctgggt gtgtatttgc 180
ctgccttgtt gtccttatcc tcgag 205

<210> 1036
<211> 171
<212> DNA
<213> Homo sapiens

<400> 1036
gaattcgcg cgcgctcgac ctgtttgtgg tgagggtgaa ttatgtgtgt ttttcctagc 60
ttagtgtgtg cgctctttct ttttgtttct gagaatgctg tgttgagggg gtttttggag 120
aaaacggtgg ggttggggagg ttgtagtact tcaaacaaag gtgaactcga g 171

<210> 1037
<211> 251
<212> DNA
<213> Homo sapiens

<400> 1037
gaattcgcg cgcgctcgac cgtttttccc acttcaacag ttacttcagg tttaaagtcc 60
tttttatctc tgtaacctgg tgacataaag ccaggaacat tttcccacaa tccaccttag 120
cataaaacat aacaatttca ttcctcagtt gttattgtgt agaaccaatg aacatgttgg 180
tcatttgtct gtatttagtc tttatttcta ttgctatatt tgagcattcc aagattgcag 240
agggctctcga g 251

<210> 1038
<211> 159
<212> DNA
<213> Homo sapiens

<400> 1038
gaattcgcg cgcgctcgac cccatatatc acaagcaata tgggaagaat aaaaaaagta 60
aacctattat tattatattt gagatatggg ctctctcacc caggctggaa tgcagtgggt 120
caatcacagc tcactgcagc ctcaatctcc aagctcgag 159

<210> 1039
<211> 188
<212> DNA
<213> Homo sapiens

<400> 1039
gaattcgcg cgcgctcgac cttaaatttt tgcctcatta ttgcatatc tttgagacaa 60
caaaaatttg ccttttttcta gttttttttt tgttgggtgg atctaaaaga ttcttatatg 120
taaatacaaa tattacagag aaagtgaata tgatagccaa aatgtggatt atgaggatac 180
cactcgag 188

<210> 1040
<211> 207
<212> DNA
<213> Homo sapiens

<400> 1040
gaattcgcg cgcgctcgac taaataaata aattaattaa ttaataaagt aataataata 60
ataaagccca gcctggttgg tgtgctgtag gtagatattc atgttcaagg ctctgtctct 120
tcctgacctc cgaactgttg tcataaaatc attcattcat acactaaacc atttgatatg 180
tatttactga atccctact cctcgag 207

<210> 1041

<211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1041
 gaattcgcgg ccgcgtcgac acccctcacc cccaacccct caaccttata ttaccttgaa 60
 attccaccga tgcctatatcc ggggttcttt gcaactttca agtgggtatt atttccgta 120
 gctttggagg aatattcttg tgatcacgca atcaaccatc atgatatgaaa cctcgag 177

<210> 1042
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 1042
 gaattcgcgg ccgcgtcgac ccactttttg gagagtagca aatctagctt tttgtacag 60
 acctagaaaat tatctaaaaga ttctatcttt ttacctcata tttcttagga atttaagtgt 120
 tatatgttgt ctttttttcc tatgtctttt ggtcgaagca acgtcgctcg ag 172

<210> 1043
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 1043
 gaattcgcgg ccgcgtcgac cagtcaggcg ctgtggctca cgcctgtgat ccagcactt 60
 tgggagggcg aggtgggcag atcgccctggg gtccggagtt tgagaccagc ctgaccgaca 120
 tggagaaacc catctctgct aaaaatgcaa aattggccgg gtgtgggtggc atgtgctgt 180
 ggtcccggt actcgggagg ctgaggcggg aggatcgctt gaacctgggg ggcggagggt 240
 gagggtggca gatcgccctgg ggtcgggagt ttgagaccag cctgaccgac atggagaaac 300
 ccactctgc taaaaatgca aaattggcgg ggtgtggtgg catgtgctg tggccccggc 360
 tactagggag tgctcgag 378

<210> 1044
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 1044
 gaattcgcgg ccgcgtcgac cgttcgattg agttgggggt gaactctggc gtcttctcag 60
 gtgggttaaag gaaccagcgc ttaccgacct agatcacttc tgagtaccgc ggtccatgcc 120
 agtgggaagg caccctcgag ccagctcctg cgattccaaa gctgtaagct ggagcgggtc 180
 ccagcaggcc aaatgggggt ggggagtagt gccgaaagag agaggccac tcggtgaagt 240
 tgttgtcccc gaagaagtac aggggtgcat tgcccaggga ggtgggggtc tgggggtgca 300
 gcagctgctc cacatactcc tggaagggca agtccacttt gtggtaggag taggtgttg 360
 cgggtgctcag ccggaccact ctgtccccc aaagaagccag caacctgtcg cgggagcaca 420
 gggcccgga cctcgag 437

<210> 1045
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 1045
 gaattcgcgg ccgcgtcgac gcggggattc ttggcgccat tgtgtgccgt gggcgtctcg 60
 tacaccgcgt agcccaggcg cagtcggcag taggggtcca tgcgggtcat gccgtaattc 120
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 ccgtactgca gctgctgggc cgcctggggc tccagctgga cctgcccgtg ctgctgtgtg 240
 ggcgtgatgc ggaggaaagtc ctgcgggagc tcaccgatgt acaccggccc gcgctgagt 300
 ctgacgggtg tcgccatggt gctgcggcgg ccccccgtggc tcgccgacc gacagtgcag 360

cgccggggcga cctcctgcgc ccccgccgga gcctgcgacg gagacagttg tcacctcgag 420

<210> 1046

<211> 424

<212> DNA

<213> Homo sapiens

<400> 1046

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 ggtgcggggt gtctcctctg gcactcccg tctgggagag gccgcctccg accccgctct 180
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 cactgccgga gccacgccgc tcattccagg ccacgtgcag cccatcctcc tcgcccctgc 300
 ggtcccgctt gtggacacgg gagtgcacga ccacctggtg gtaagtgcgg aacacccggc 360
 cgcagtcggg gcactcgggt ggcttctcct tcattgtccc aggacctgc aggttatact 420
 cgag 424

<210> 1047

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (251)

<400> 1047

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 ctgctcacag gtgaggtgag ctatgctggg ctgggtgatg aaccagatgg gaggaggtgg 180
 tgagacaggg ggagagccag gtgccaggga tagctgctcc ctgttctggc accagcaatg 240
 agaaaataaa nacaccacag agtgtggcag caatcgtctg gggagggaca cacttggtgg 300
 tgcgggcagg tggggcagtg ggggttcaag tgttcaggtt ggacacacac cacccttgag 360
 atgactacga aagacccaag ggtgggcgtt aaataggggg ctggatacat aggtctggag 420
 ctacagcagg ccgcgccagg aggaaatggg agatgataga atgggaattt tctcgag 477

<210> 1048

<211> 192

<212> DNA

<213> Homo sapiens

<400> 1048

gaattcgagg ccgcgtcgac catgaaccca atccggagaa ggttccagg ggtccccac 60
 cctccccctc tctctctact tctcctcttg acagcgagga caggaggggg acaaggggac 120
 acctgggcag accgcgcggc tctcccccca cccaccccg cccctccat catactccaa 180
 ccaaacctcg ag 192

<210> 1049

<211> 366

<212> DNA

<213> Homo sapiens

<400> 1049

gaattcgagg ccgcgtcgac gttttctctt togatatata tgtctctgtt tttctctgtt 60
 tctacctcct tctctctcca ctgtttcttt ctgcttttat cttctctctt cttctctctt 120
 ctcccgctga tctccagtgc catggggggc cctgtgctgg gggcgccagg agagccacct 180
 ggagccacgc ctgtgtctcc ggtcttgggg agggtcgggt ggttggtgag tgcacgggtg 240
 gcgtgctcc acgcgccccg ggcgcacgca ctccccgggt ctgggatttg gctggcagta 300
 cctgccccg cccgcgcggc cgcgcgcccc gccaccagg atcgcttggg agagggttac 360
 ctcgag 366

<210> 1050
 <211> 535
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (104)

<400> 1050
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 gccggtgagt ttgagttcct gagatctagt tggtagagaga catgatgttc taccggttgc 180
 tgtcgattgt tggaaagacaa agagccagcc caggatggca gaactggtcc tctgcaagaa 240
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 tctgtggagg tggaaacacg ggcacttctg tggcccatca ccaatccaaa atgggggtgga 360
 aggataattgt ccttttggag cagggcaggc tggctgctgg ctctaccagg ttctgtgctg 420
 gcatcctgag cactgccagg cacttgacca ttgagcagaa gatggcagac tactcaaaca 480
 aactctacca tcagtttagag caagaaacag ggatccgaac agggtaaacac tcgag 535

<210> 1051
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 1051
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 cagggttaatg acaacaccaa cacagcgggg tccccgggg aggtgctctc tcgccggtgt 120
 gtgaaccttc tgaagactgc gttgcggcca gacatgtggc ccaagtccga actcaagctg 180
 cagtgggttcg acaagctgct gatgactgtg gagcagccaa accaagtga ctatgggaat 240
 atctgcacgg gcctagaagt gctgagcttc ctgctaactg tcctccagtc cccaggcctc 300
 gag 303

<210> 1052
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (286)

<400> 1052
 gaattcgcgg ccgcgtcgac tgatgaagaa gcacaaggct gccgtggctc aggtttcccg 60
 ggacctggct cagataaatg atctccaagc tcagctagaa gaagccaaca aagagaagca 120
 ggagctgcag gagaagctac aagccctcca gagccagggtg gagttcctgg agcagtccat 180
 ggtggacaag tccctggtga gcaggcagga agctaagata cgggagctgg agacacgcct 240
 ggagtttgaa aggacgcca gtgaaacggc tggagagcct ggctanccgt ctcaaggaaa 300
 acatggagaa gctgactgag gagcgggac agcgcatctg agccgagaa cgggagaagg 360
 aacagaacaa gcggctacag aggcagctcc gggacaccaa ggaggagatg ggcgagcttg 420
 ccaggaagga ggccgaggcg agccgcaaga agcacgaact ggagatggat ctagaaagcc 480
 tggagggtgc taaccagagc ctgcaggctg acctaaagtt ggcattcctc gag 533

<210> 1053
 <211> 531
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure

<222> (511)

<400> 1053

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gaattcgcg cgcgctcgac cgcggccgcg tcgactcccc aaggaaaatc ttttcagctt 60
ccagacagca accacaacta tgcaagccat ctccggtgttc aggggctacg cggagaggaa 120
gcgcgggaaa cgggagaatg attccgcgtc tgtaatccag aggaacttcc gcaaacacct 180
gcgcattggtc ggcagccgga ggggtgaaggc ccagacgttc gctgagcggc gcgagcggag 240
cttcagccgg tcctggagcg accccacccc catgaaagcc gacacttccc acgactcccg 300
agacagcagt gacctgcaga gctcccactg cacgctggac gaggccttcg aggacctgga 360
ctgggacact gagaagggcc tggaggctgt ggcctgcgac accgaaggct tcgtgccacc 420
aaagggtcatg ctcatctcct ccaagggtgcc caaggctgag tacatcccca ctatcatccg 480
ccgggatgac cctcccatca tccccatcct nctacgacca tgaagctcga g 531

```

<210> 1054

<211> 454

<212> DNA

<213> Homo sapiens

<400> 1054

```

gaattcgcg cgcgctcgac ggcgcttgcc tgtaatccca gctcctcagg gggctgagac 60
aggagaatcg cttgaacctg ggaggtggag gctgcagtga gctgagatcg cggcactgca 120
ccccagcctg ggctacagag tgagacttgg tctcaaaaaa aaaaaacaaa acaataaac 180
aaacaaaaaa caacaacaaa aaacaccctg ggtactattc catcaaatga aggtactgtg 240
agttatctaa tcagttccct gttgaggggc attttgattg tttcatgtcc tttactctta 300
ggaacagtga tgcagtgaat atcctgggtg atatttaata gacgttctct gatttgacct 360
tgccctggatg gagatgcatt gataatagac gctctgtgtt tctgctgccc attatactcc 420
aaacacttgc agccctgtcg tcagtgcgct cgag 454

```

<210> 1055

<211> 435

<212> DNA

<213> Homo sapiens

<400> 1055

```

gaattcgcg cgcgctcgac cgcggccgcg cccggccgcg tcccagaggg tcccagcctg 60
gccccgtgaaa gggcactggc ggttccccgt gagccgatgt ctccatgcgc ggctcctggg 120
ggctcctccct tttgcgcagg cagaggaaac ggcttggggg tcaggaagca gccccagcc 180
cgccttggga ggtgacatca ccagggttta ccttccacaa acacatttaa caacagacaa 240
aacgtgaacg aggagaaact ggagtgcgag tttgaaccag ccacagtctc tacgtgtcat 300
ccaaggagcc cggcacagac cccgtgtcac ccccatgtca cccgcagacc ccgcgtcacc 360
catagatacg cacaccccggt gtcaccccca tgtcacccgc gtgtcaccca cagatacacg 420
gcccccgtag tcgag 435

```

<210> 1056

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (20)

<220>

<221> unsure

<222> (134)..(135)

<400> 1056

```

gaattcgcg cgcgctcgan tgggcgtggt ggcattgcgtc tgtaatctcg gctactcggg 60
aggctgagac aggagaattg cttgtacctg ggaggcagag gttgcagtga gtgagatcaa 120
gctgctgcac tccnncttgg gcgagagagc gagactttgc ctcaaaaaac aacaaaacaa 180

```

```

acaacacta tggtttctgt cttggtaatt ctctctctca aatcacttgc tctggaggaa 240
tcaagctatc atgttgagaa cagcctaatt cagaggcctt catagtgagg aactgaaacc 300
tcctaccaat aacctatgtga tgattttgtag gcaaatcctt caattcaaat caagctttca 360
gatgactact atcttagcca gtaccttacc tgcaaacctca agagggaccc taagccagaa 420
tcaaacact atgcctctga ttcttgaccc tcggaactgt gaaataacat ttgttggttt 480
aaatcgctaa gtttaagggt ttgttacgea ctgatagata atacaggacc actactcgag 540

```

<210> 1057

<211> 703

<212> DNA

<213> Homo sapiens

<400> 1057

```

gaattcgcg cgcgctcgac agggaaacata tcttttttct agagcctctg tgtgctgggt 60
tactgtatac ttcccttgac agtagcaatg ctgatttgcc ggctgggtact tttggctgat 120
ccaggacctg taaacttcat ggttcggctt tttgtggtga ttgtgatgtt tgcttggtct 180
atagttgcct ccacagcttt ccttgctgat agccagcctc caaacgcgag agccctagct 240
gtttatectg ttttctgtt ttactttgtc atcagttgga tgattctcac ctttactcct 300
cagtaaatca ggaatgggaa attaaaaacc agtgaattga aagcacatct gaaagatgca 360
attcaccatg gagctttgtc tctggccctt atttgtctaa ttttggaggt atttgataac 420
tgagttagtg aggagattaa aaggagacca tatagcactg tcacccttta tttgaggaac 480
tgatgtttga aaggctgttc ttttctctct taatgtcatt tctttaaaaa tacatgtgca 540
tactacacac agtatataat gcttccttaa ggcattgatg agtcaccgtg gtccatttgg 600
gtgacaacca gtgacttggg aagcacatag atacatctta caagttgaat agagttgata 660
actattttca gttttgagaa taccagttca ggcagagctc gag 703

```

<210> 1058

<211> 263

<212> DNA

<213> Homo sapiens

<400> 1058

```

gaattcgcg cgcgctcgac ccctgtctca aaacaaaaaa ccttccttta atcttacatc 60
agatgtgtgg gtttttaaaa ttatttatgt gttttattta ttttatttta ttgagacgga 120
gtcttgctct gttgcctggg ctggagggca gtggcatgat ctcggtcac tgcaacctct 180
gcttcccatg ttcgagcggg tctctgctc cagcctccca agtagctggg attacaggtg 240
cccgccacca caccgaactc gag 263

```

<210> 1059

<211> 316

<212> DNA

<213> Homo sapiens

<400> 1059

```

gaattcgcg cgcgctcgac ccagcatctc tcaacagtct cagctcgctc attottaaga 60
tgtcagctta aatgttatct cttcagaggc ccccatgttc tctcttgcaa tggcctgttc 120
tattccatta ggggactttg ccataatatg catatttgtg taaaagttcc atgagagcag 180
agggtttgtt tcttttatcc ctccatacac agcaactgga acaatacaat gcatagagta 240
aacatgcaac agataacctg aaggaaatgt gtttcatgcc ttcattcctt cctatacatt 300
attgtcccc ctgag 316

```

<210> 1060

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (27)..(29)

<400> 1060

```

gaattcgcg cgcgctcgac ttgaatnnna gacatgcctg ctacaccccc actgcactaa 60
cctaaataat ctctgattat tttctttttc tcttgctact accaaattct gttcttgagt 120
gaggaagcag cttgggttaa aaacaaaagc cctgatatgt atatatattt ttttctctga 180
agaataccat caggatgaag gctatgatta atacacataa ttgctacaaa tggcagctaa 240
ctgcagaaaa ccacctccca gctgttgag gaaggaaatt gctgacagcc actccccatt 300
gggtggctac caaaagagag gagctcacag gagcaggaga gaatacacat ctccatccca 360
cgtgacccat agagatgacc cattaggctc gag                                     393

```

<210> 1061

<211> 247

<212> DNA

<213> Homo sapiens

<400> 1061

```

gaattcgcg cgcgctcgac gctaaacgga ctgtttttat tgtagtaaaa gagctttgta 60
aattaaccaa ttaattttta agcctaaat aagcttttct gtgcatttga gatctagaag 120
atacagcttt attaatctga tctaaatttc tgaagggggc ttgtatttct gtaatcagtg 180
atatcagtag tcaactgttg gcaaagggca ttttttaaaa gaaatgcaca tagcaggctt 240
tctcgag                                     247

```

<210> 1062

<211> 240

<212> DNA

<213> Homo sapiens

<400> 1062

```

gaattcgcg cgcgctcgac aaaatagccc tggaagtgtg gccttcagct cctctaccca 60
cagctgacta aaaacatttg caagtttctc acctaggctg ttgtcacccg aatataaatg 120
agaccattt ctggccagaa aacttcagct atcacagtct acatttgtat gagttgcttg 180
gctgttttct caagcaaaa aagggtgcag gtctcatgta tttccccca acacctcgag 240

```

<210> 1063

<211> 429

<212> DNA

<213> Homo sapiens

<400> 1063

```

gaattcgcg cgcgctcgac gtgggagcgg aggtagggga gctcagaggc aggaagcatt 60
ttcggcaaac cactgcagag taggcatgtc atccctccca ccagcactgg gggagcccaa 120
tgcccaccac ggacaagggg tgccagacac ttgaactagc agccaaggaa gtccctacca 180
tctcatgatg aggagcataa aggtgggtgt atgtgcaact gcttagaggc agataaataa 240
atgtgaaggc aaagtgggcc aaggaagcaa gaggtggaaa agaccaacaa aattcaacta 300
acttccctcc ccagtcacac actatgctaa ccccttctgc cactgggcca actgcagaga 360
taaaaatgcc agtgactcac tccaggttgg gctcttgagg ctgccacaag cctgatactc 420
agcctcgag                                     429

```

<210> 1064

<211> 210

<212> DNA

<213> Homo sapiens

<400> 1064

```

gaattcgcg cgcgctcgac gaattgggat cataccatag acgaacgagg cggagactat 60
tgccgggaatc ttactgttca ggagctgttc ctagaactaa ctcccttact gtcattgatg 120
tgcatccac tctgtgcttt tctgtacaac cattcaagtt ttaatttccc aggtgaacca 180
tctttatctg ccattaccac aagcctcgag                                     210

```

<210> 1065

<211> 262

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (138)

<400> 1065
gaagaaaatg aagcacctgt ggttcctcct cctgctggtg gcggtccct tacgggtcct 60
gtcccagggtg cagctgtatg agtcggggcc agggctgatg aagccctccg agaccctgtc 120
cctcacctgc ggtgtctntg gtggctccct cagtgggtgt gccgacttct ggggctgggt 180
ccgccaggcc ccgggaagg ggcttgagtg gattggcaat atgcaccatc gtggaaatgc 240
ccattacaat ccgtccctcg ag 262

<210> 1066
<211> 262
<212> DNA
<213> Homo sapiens

<400> 1066
gaattcgcgg ccgcgtcgac ggaccggcgg cgtgttgttg gcgttctaga ccttgaacga 60
cgggcgggta ctgggtggcgt tctggatctg gatcgcttc tgcctactgg ggtgctctt 120
gaccgggac ttcgtcgagt cactgaagtc ctggacctg accgtctccg gctgactggt 180
gaagtccgag atctggacct acgtcggtt atcagggggg ttctggacct ggtcgcgg 240
tgagtggctg gagaggctcg ag 262

<210> 1067
<211> 123
<212> DNA
<213> Homo sapiens

<400> 1067
gaattcgcgg ccgcgtcgac cgtcgattga attctagacc tgcctcgagt tctcaattct 60
gttaacaatt taaaatttca ttaattgtgt ttaatatcaa tgaattctaa aaggctcctc 120
gag 123

<210> 1068
<211> 265
<212> DNA
<213> Homo sapiens

<400> 1068
gaattcgcgg ccgcgtcgac ggggttctgt ttccatacaa cattgtttat ttccgattcc 60
tcagaagatc ctttattatg aataacctca gtgtaatgtt aatttccgt ccccatgtca 120
aaattgtcac cctaagcctt tttttttttt tttttttttt ggagacgggc tcaactctgtc 180
agccacgctg gagtgcagt acatgatctt gactcatggc aggcttgacc tctgggctc 240
aaggaccacc tccaagcac tcgag 265

<210> 1069
<211> 153
<212> DNA
<213> Homo sapiens

<400> 1069
gaattcgcgg ccgcgtcgac gattgtagat attgggctgt taattgtcag ttcagtgttt 60
taattctgacg caggcttatg cggaggagaa tgttttcatt ttaattatac taacattagt 120
tcttctatag ggtgatagat tggccactc gag 153

<210> 1070
<211> 563

<212> DNA

<213> Homo sapiens

<400> 1070

```
gaattcgcgg ccgcgtcgac agggcacttc ctctaagtaa acacaaatat ttctgtagtg 60
aactgtatgc atattccac tgagtaaagg ttataagaag cctcaggtca ggtcttacca 120
ccaaacttga aaacacttgg aatgcagctg ggcagggact tgagcaggtt ttgtcttgat 180
aagcaggtaa gaatggcaga aacttggtt attgtcaacc aatgtttttt tatatacttg 240
aagtattcat tgaattctag acctgcctcg agtatgggga gatgggaaaa ggcaggttag 300
gggcatgcag gctcagggaa cagggtcttg gtgggtggat ggatagccat ggaggcagaa 360
agaggcctct gcaggaagaa cctgggagag cggagaggag gtggtgaggc aggggagcac 420
tatggaatgg ccttgaggcc aggaggggct caggatgacc aggcacaaagc acagctggtc 480
caggatggag gggaggcctg cacagcatga gcaggaggct agaggagaca gaccatgagg 540
ccctgggaga ccctcactc gag 563
```

<210> 1071

<211> 511

<212> DNA

<213> Homo sapiens

<400> 1071

```
gaattcgcgg ccgcgtcgac gtgatgccc tctagtctca gtgaatttaa cctgtgattt 60
tatgtctacg tatattgttc ctttactgaa cccaccacat gggggccata aaatgagtga 120
aatcacagtg caccctgttc tcttattttt gaagtgttcc acgatttcca gcatgtccat 180
cagatggggg gattgctaac ttctctctta ctcattgtac tacattctgt agttctcatt 240
gcatcaactt ggatgtttac ttgaaaagc agaaactgtc tctttaaact tggccctcaa 300
tgtcatttgc gtatctctga gaacaatagc tatgtccac cccagtttgt atttccgttg 360
gttggtggca cttttttctc attcccccat ctcattacct tgtctgtttt ctggcactca 420
ctataatcag ccttgcaacta gagctgtttg tggacttggc ttcacccctt cctcctcagc 480
cctccccac ccattaaatt gcgagctcga g 511
```

<210> 1072

<211> 339

<212> DNA

<213> Homo sapiens

<400> 1072

```
gaattcgcgg ccgcgtcgac agggcatcga gagtagtggg aacgtgggtat gagatcaggt 60
tggaaagggt aatgaagatt gaaaaaaaaa agacggcaaa tagagtagat gctgctagac 120
caattaggaa acttctagtt caggcaagag ataatgatag cataggttga ggacaggtgt 180
tgggtgatgt gatgcaaaga gcgttaggat tetgagatat ttggcaggta ctgttgatag 240
gtggagtggg ggtagaagag aaagatcatg agtttgactt tagatatgtt aagtttgatc 300
taccttgaag acatccaaga gaagacaccg ggactcgag 339
```

<210> 1073

<211> 226

<212> DNA

<213> Homo sapiens

<400> 1073

```
gaattcgcgg ccgcgtcgac ttgatattc tattccattt ttttcagtct tctttgcctt 60
tgctcttcaa ttttgaaagt ttctattgac acatcctcaa gctcagagac tctgcttagc 120
catgtccggt ctactaatga gcccatcaaa agcattcttc acctctgtca cagtattttg 180
ctctgtatca tttctttttt attctttctt agaacttccg ctcgag 226
```

<210> 1074

<211> 186

<212> DNA

<213> Homo sapiens

<400> 1074
gaattcgcgg ccgcgctcgac gcagatgtcc atttcaacag gcttaagtgc aaccatgaat 60
ggaatccatcg aatcttttgat tcttcctgga ataataagta ttcacccctgt tgtaagaaac 120
ctggctgttt tatgcttggg atgctgtgga ctacagaatc aggattttgc aaggaaacac 180
ctcgag 186

<210> 1075
<211> 247
<212> DNA
<213> Homo sapiens

<400> 1075
gaattcgcgg ccgcgctcgac ggtagggatc caccacatat atttataggc ttccagagtg 60
gcttagccat tttgaaacca gtcattttct atttggcatg cttctagctt taacaattaa 120
ccttcttaca ttaatacatg ctttgaatcc agagagtatc tgctgctttg gatctgaaat 180
ggactggcag atctgcggag ctacagcaga gaaaaaatac tggggagaaat taaaagtctt 240
ccctata 247

<210> 1076
<211> 222
<212> DNA
<213> Homo sapiens

<400> 1076
gaattcgcgg ccgcgctcgac atacctccat ttgcaaacaa aatttcattc ccacttctctg 60
agtccatcca gattgctgct ccaaccttcc tctgctctct gctaaatatt accgctctag 120
tggtacattc ctattggcat actaactgct gctatttctt ccactttgaa aacaggaata 180
acaaattaac ttatcatgat tctacttccc caaataactg ag 222

<210> 1077
<211> 167
<212> DNA
<213> Homo sapiens

<400> 1077
gaattcgcgg ccgcgctcgac ggtaaagggtg aagtcagctt tttctagctt acagtctctgt 60
catccagttc ctgagctaaa ataggcgcta cagttctgat tttggctttg tcatttgagt 120
ctctggctct tttctgtatg ggtcaagcta gaaggggaca actcgag 167

<210> 1078
<211> 170
<212> DNA
<213> Homo sapiens

<400> 1078
gaattcgcgg tcgcgctcgac atatatattgt atttttgtat gctttggaaa aagacaggaa 60
ataaacacca aaatgttgcc agtaggtatc tctgtgttaa gattagtgtt attatattct 120
ttctgtact tttctgtatt tcccaactgt tatataatga gcgactcgag 170

<210> 1079
<211> 225
<212> DNA
<213> Homo sapiens

<400> 1079
gaattcgcgg ccgcgctcgac ctaatgcate acagcattct ttgaaatgga accagacaca 60
gcctgcctct caatcctcag ctgggggctc ctacagcact cttgtattta ctacagagttg 120
acacatcaca cagatccctgt ttggcattcc taccttacgg acgtctcagg ggtgacagga 180
ccagggcaga gccccggtac aaacagacaa ggctgcaatc tcgag 225

<210> 1080

<211> 214

<212> DNA

<213> Homo sapiens

<400> 1080

```

gaattcgcg ccgcgtcgac cgcattgtcca gtgggctggg aagcaagcac ttgaagagaa 60
ggaaggggag aaaggggtccc ccttgctgtc tgccctctgag gaatggaaat ccttttagacc 120
cggccttttt tggaccaata taaatttaat ttaaattgac agccttccat ttttcgagaa 180
agtacaaaaca gaactgcttt agcaccact cgag                                     214

```

<210> 1081

<211> 102

<212> DNA

<213> Homo sapiens

<400> 1081

```

gaattcgcg ccgcgtcgac gtgggtgtctc tacaatactg tgctttttct ctccattaac 60
ataatgcac tgagagtact tctccttcag catgttctcg ag                                     102

```

<210> 1082

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1082

```

gaattcgcg ccgcgtcgac agccaatata tttcatttta aagcaagcaa taaaaactta 60
tttcgtgttt taatatTTTT attgacttta aaaagacttt gaacttagtg aaagagaatc 120
agtcaactag aaatgtactg ctctcatcta gctgggaagg tcattgtaat tttcttctat 180
atagatttgt ttgctctaga taagcggctc aatttgaata gatttttagt ggtagaaaga 240
gatgacggaa gcacattaat ggaacaactc gag                                     273

```

<210> 1083

<211> 264

<212> DNA

<213> Homo sapiens

<400> 1083

```

gaaattcgcg gccgcgtcga ccttaaaccg tcgattgaat tctagacctg cctgctttcc 60
tgccctgcccc acctgacctc tattgtgtgg gccttttttt gtttgtttca ttcattgttt 120
tttttttttt aattatttta aatgagattt ttgttttttt taaatgcaat atctctgtat 180
acagactggc tgggccccac cccctgcgtg tggccctccc acagtatttt gtgcaatgaa 240
gccctgctcc cagccactct cgag                                     264

```

<210> 1084

<211> 383

<212> DNA

<213> Homo sapiens

<400> 1084

```

gaattcgcg ccgcgtcgac caacagccag tttggcctcg tggacatccc tgtggagtcc 60
aagctgggtc ttgcccaggt cctgctcctg gacttctgcc tggcgctcct ggcgcagccg 120
gtcctgcagt tcttctcggg gaccccgagg ctgaaagtgc ctctctgaga tggcagtgc 180
ggtacccact gccaccctg gctgcgcgtg ggcgggaacc ccaacagggc cccgggaggg 240
aaccctgccc ccaacccccc acagcaagge tgtacagtct cgcccttggg agactgagct 300
gggaccccca cagccatccg ctggccttggc cagcagaacc agccccaagc cagcaccctt 360
ggtaaataaa gcagcaactc gag                                     383

```

<210> 1085

<211> 282

<212> DNA
<213> Homo sapiens

<400> 1085
gaattcgcg cgcgctcgac ctttgagatt gtcacttctg tacataaacc acctttgtga 60
ggctctttct ataaatacat attgtttaa aaaaagcaag aaaaaaagga aaacaaagga 120
aaatatcccc aaagttgttt tctagatttg tggctttaag aaaaacaaa caaaacaaac 180
acattgtttt tctcagaacc aggattctct gagaggtcag agcatctcgc tgtttttttg 240
ttgttgtttt aaaatattat gatttggcta cttgcactcg ag 282

<210> 1086
<211> 184
<212> DNA
<213> Homo sapiens

<400> 1086
gaattcgcg cgcgctcgac cctgtttatt agaaagtga gagaggatga ttatgttcct 60
tcattctctc agtgtcttag tactccctac acctgcgtta tgttatgacc tacctttgcg 120
atctgccagt ttgggggtca gcttaagtga gaattcatat tctgtctcac tggaatcact 180
cgag 184

<210> 1087
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1087
gaattcgcg cgcgctcgac gtgagtcacc atgccgggt attgctttct tatattgaca 60
gtgggtttgt actctctcta tgtcctacgg cactgccatc agatgggtggg aaattatgac 120
aggttgtttg tgggtatcct gtagctaagt aatacctagc gaggaatca ggattagaaa 180
ataactcgag 190

<210> 1088
<211> 110
<212> DNA
<213> Homo sapiens

<400> 1088
gaattcgcg cgcgctcgac caaataataa aattgttcaa caggaagctt tcttggccag 60
gtttctccac caaatccata atgctgatgt cctttgccca tatgctcgag 110

<210> 1089
<211> 226
<212> DNA
<213> Homo sapiens

<400> 1089
gaattcgcg cgcgctcgac ctgtaataag cattataatt cctgttctta aaataataag 60
ttcatttaag gaaaaggggg tgaaaggaaa aatctgcaga atttaggtct gagataatac 120
catttcaaag cactgtgata caaattactt atatatgtta tatactgtgt gtgtgttaac 180
tacttttatt tgggggcttg ttttgcatac atgtgaaggt ctcgag 226

<210> 1090
<211> 267
<212> DNA
<213> Homo sapiens

<400> 1090
gaattcgcg cgcgctcgac ggcaggataa aacaacatag aaaatataaa acaatttttg 60
ctttgaaaaa tacagtgacg gtgaccattt actgcttatt ctgtaatcct tactgtctat 120
aattaacttc agtaacactg aaacttgatg aaaagtttta aaaaattatt tactgtaggg 180

acaaagttat atggaatgtt gttattttct atactatctg aatgcactgc cagtgaagac 240
tgtaaagaca gaacacaaac actcgag 267

<210> 1091
<211> 186
<212> DNA
<213> Homo sapiens

<400> 1091
gaattcgcgg ccgcgtcgac gtcattttgc tttttccct ctggtgaaaa atcattcctt 60
ttttatcccg tggcatatat atgtttgcct ttataaatta ggatcaattt ttgtatgttt 120
aggcagtcac ttttactttg cgtttttcta ttctgtttta aaagcattta tggccaaaaa 180
ctcgag 186

<210> 1092
<211> 282
<212> DNA
<213> Homo sapiens

<400> 1092
gaattcgcgg ccgcgtcgac gtggtctact cgtggataag ttcaaactaa atggatggga 60
aaaaatataa catcctaaca ttcataaagg aaagctgaag tggttacatt agaacaagca 120
atgtttgctaa ggataagatg agacatttca taatgataaa tgggtgaatt catcaagaaa 180
acagttctaa acaggtgtgt acctaattac agtttcaaaa tacatgaagt aaaatctgct 240
ctcattgaaa ggaaaaatat ataaaatcaa aatctactcg ag 282

<210> 1093
<211> 208
<212> DNA
<213> Homo sapiens

<400> 1093
gaattcgcgg ccgcgtcgac gccttctatt gtgctttgtt tttgctgact tttctgcacc 60
ctgtttcctt tggatattca gttctctcaa cctcaagatt gagacggtgg tgggtatgct 120
ttccacttc catatgacct tcctgctgtt ctggaatata acatgctacg aggtcatcct 180
tcacactact tgtaagccaa cactcgag 208

<210> 1094
<211> 187
<212> DNA
<213> Homo sapiens

<400> 1094
gaattcgcgg ccgcgtcgac ccttaatgcc atccttcatt gtctttctgg cttctcttct 60
tctggcacag taccattttg ggtctgtgcc ccagtgtgga gcaaaacatt gctgttccca 120
ttctgatata cttcagaatt tgagagcaga agttaatgtg gaacaaaagt tttcaccatc 180
tctcgag 187

<210> 1095
<211> 221
<212> DNA
<213> Homo sapiens

<400> 1095
gaattcgcgg ccgcgtcgac ggcactgttt tttttttaa cagttaagta ctgatgtcaa 60
cagacaaata tttctgatca gatagtcccc tgtaacagt agcaaatgtg gtttcataaa 120
gtgggaagaa aacagcattt taaagtaact ttttgggaga ctgatttgag taataataaa 180
actctggtct cccttaagaa aaaaaaaccc ttccgctcga g 221

<210> 1096

<211> 241
<212> DNA
<213> Homo sapiens

<400> 1096
gaattcgcg cgcgctcgac tataaataga tttttttgtt gaatgttaat tcagttatat 60
attttcttct tgatatgttc tttagttgat gcaggccagt taaaatgagt gacttcaagt 120
tttagagaaa tacataacaa tgtcagttta taattatttt gttttttata caatttacta 180
ttttagaatc tcattcatat tccattgtat ttccatgaat gatactttgg gacaactcga 240
g 241

<210> 1097
<211> 192
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (29)

<400> 1097
gaattcgcg cgcgctcgac gagacacena aatccagtea gtatctaate tggcttttgt 60
taacttccct caggagcaga cattcatata ggtgatactg tatttcagtc ctttcttttg 120
accccagaag cccatagactg agaagataaa atgggcaggt tgttggggaa aaaaaaagtg 180
ctggctctcg ag 192

<210> 1098
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1098
gaattcgcg cgcgctcgac cgtcgattga attctagacc tgcctcgaga tgetccttct 60
taacgtgctg gcctctgtgc tcatggcctg catgacgctg ctgcccacct ggttgggagg 120
cgctccccc ggcctcccg gcccgcacat ctctcgcgc tggcgctcct ataaccctcc 180
cccactcgag 190

<210> 1099
<211> 152
<212> DNA
<213> Homo sapiens

<400> 1099
gaattcgcg cgcgctcgac gtgttggttg tttgtcagac tttctgaaa gtttggagtt 60
aatgggagat gagaaagcat attgaaagaa tacttttctt tttttttaat tattattatt 120
atactttaag ttttagggta cgagcactcg ag 152

<210> 1100
<211> 295
<212> DNA
<213> Homo sapiens

<400> 1100
gaattcgcg cgcgctcgac ccccgatcca ggcacctggc cctcagcggg cccacctttg 60
gtatcattgt gaagcacttc cccaagctgc tgcccaaggt cctgggtccag ggcactgtct 120
ttgcccgcat ggcctctgag cagaagacag agctgggtgt cgagctacag aagcttcagt 180
actgcgtggg catgtgcgga gacggcgcca atgactgtgg ggcctgaag gcggctgatg 240
tcggcatctc gctgtcccag gcagaagcct cagtgggtct acccttcacc tcgag 295

<210> 1101

<211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (32)

<220>
 <221> unsure
 <222> (48)

<220>
 <221> unsure
 <222> (66)

<220>
 <221> unsure
 <222> (205)

<220>
 <221> unsure
 <222> (212)

<400> 1101
 gaattcgcg cgcgctcgac tattggagtg cnaagtgcgtg tgattgtngg tggaattgat 60
 tcaatntctc aatctttggc ccttgcaaaa aaaccacata taataatagc aactcctggt 120
 cgactgattg accacttggg aaatacgaaa ggtttcaact tgagagctct caaatacttg 180
 gtcattgatg aagccgacgg aatantgaat anggattttg agacagaggt tgacaagatc 240
 ctcaaagtga ttccctcgag 259

<210> 1102
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 1102
 gaattcgcg cgcgctcgac gttaaggagt aggcctcctg agtaaaggag gtgtgatttt 60
 tttttttttt gaggtgggag tatagttgga actaaataaa ctacgtgtga atttaccata 120
 tcaactaaaa ttttgatcaa atgggttttt taaattgtgt ggtacttctc gag 173

<210> 1103
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 1103
 gaattcgcg cgcgctcgac ggggtgggta tgcgccaaac ctatttcagg cagcgctcaa 60
 agtaggtgga gccgatgtag ccaccccgca tggagcgctg caggttctgc tcaaacagcc 120
 gccggttgtt ctgcaggacc tctgcggcct ccttgttcag tgggtcctcg ggggtgggct 180
 ccaagaagag atactgcagg ccataaatta tggagtttat cgtaaggact ggctccagt 240
 cctctctgag gatgttgagg cagacgttgc cctcgag 277

<210> 1104
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 1104
 gaattcgcg cgcgctcgac agaatacttc gccataaata ctgttaagtg ggtaattga 60

tacaagtttc tgtggtggaa aatttatgca ggttttcacg aatccttttt tttttttttt 120
 tttttttgag acggagttct gctctgttgc cagctggaa tgcagtaacg tgatcttggc 180
 tcaactgcgac ctccacctct cctcgcag 208

<210> 1105
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 1105
 gaattcgcg cgcgctcgac gttcctctct ggcattggtg ctcaaattga tgctaactgg 60
 aacttctctg attttgccta ccattttaca gtatttgtct tctatttttg agccttttta 120
 ttggaagcag cagccacatc cctgcatgat ttgcattgca atacaacat aacgctcgag 180

<210> 1106
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 1106
 gaattcgcg cgcgctcgac gtcgaogcgg ccgcgaattc gcggcgcgct gaccaggaa 60
 aggcctgtgg ggctctctc cccgcgctcc acacgcctc gcattcccacc gaggcgccag 120
 cttctgcctg cagcttgctg aaactggcct ggaggttctg acaagaatta gagcgcgcg 180
 cgttgcctcg gggatgacct ggaagcgaaa gagaccggca cgaattctag agtttcgggg 240
 tttccgcggg ttgagattgt acgggaaaca atgcattaac caaacctaaa aatcaaacaa 300
 acactcgag 309

<210> 1107
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 1107
 gaattcgcg cgcgctcgac cagcattagc agaccgaaac aggagggaag gaagtggtaa 60
 cccaactcca ttaataaacc ccttggtctg aagagctcct tatgttggaa tggtaacaaa 120
 accagcaaat gaacaatccc aggacttctc aatacacaat gaagattttc caggcattac 180
 tcgag 185

<210> 1108
 <211> 269
 <212> DNA
 <213> Homo sapiens

<400> 1108
 gaattcgcg cgcgctcgac atgtattgga tgaacgaata tacctcatcc attggaattg 60
 gagtttttca ttcagggaatt gaagtctatg gcagagaatt tgcttatggt ggccatcctt 120
 accccttttc tggaaatattt gaaatttccc caggaaatgc ttctgaacta ggagaaacat 180
 ttaaatattaa agaagctgtt gttttaggga gcacggactt cctagaagat gatatagaaa 240
 aaattgtaga agaactggga tcaactcgag 269

<210> 1109
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 1109
 gaattcgcg cgcgctcgac acctgattac tttttcacct ctacaaccag gagaattttg 60
 aatttaaaaa taaatccaaa cattttcctt catattatca atgcttatat attccttaga 120
 ctattgaaat tttggagaaa atgtatttgt gttcacttct cgag 164

<210> 1110
<211> 255
<212> DNA
<213> Homo sapiens

<400> 1110
gaattcgagg ccgcgtcgac gattttaaaa tattttcttc ttaaatttct ctttcattgt 60
atgaattgtt ttcttgattt tattgaatta tctttctgta ttatcttgta tcttattgag 120
ggttttttgt ttgtttgttt gtttggtgaga cagagtgtca ctctgtcacc taggctggag 180
tcgagtgagg tgatcttggc tcacaacaat ctttgccttc caagttcaag tgattctcct 240
gccccaaaac tcgag 255

<210> 1111
<211> 284
<212> DNA
<213> Homo sapiens

<400> 1111
gaattcgagg ccgcgtcgac agctctttgg cctcagaatt ttcagtagcc agtattttctg 60
attaactaag ttgaaactct tattagaaac ttccagttgg tgatattgta ttctagaaga 120
tataaatgag aggttttggt tcatctcagt ttagaaattt attcaaagct aaagatgtat 180
atatacatat acttttgggt gtatatatac acatatgtgt gtatgcagtt tgtcagggtta 240
tatatagaat ttctattaag gatttttttaa atggacagct cgag 284

<210> 1112
<211> 303
<212> DNA
<213> Homo sapiens

<400> 1112
gaattcgagg ccgcgtcgac tgcaattcta atgcattcta cgtttttgaa aatcgataat 60
ccatggaagg tccatggggt gatacctcag gtcaaaaatg tgtttactct gttgattgct 120
gtttcacttt acttgtatat cagatatata agctatgaac acaagtttgt agtaaaagta 180
tctttctgtc gggcaatggc tcacacctgt aattccaaca ctttgggggg ctcagggtggg 240
aggatttcta gtccccagga gtttgagacc agcctgggca ataaactaga cccactctc 300
gag 303

<210> 1113
<211> 105
<212> DNA
<213> Homo sapiens

<400> 1113
gaattcgagg ccgcgtcgac ggggcttgta atttacctga gaaccgtgct ggtcactagc 60
gctgtctgtg tctgtctgtc ctgcgggact tctgtctcc tcgag 105

<210> 1114
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (73)

<220>
<221> unsure
<222> (86)

<220>

<221> unsure

<222> (104)..(105)

<400> 1114

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gaattcgcg cgcgctcgac gagaggagac acaggaagcc cagagagcca gatcgagaca 60
agaaacaccg agnaaaaagc agcacnaggg aaaaaagaga gacnnattcc aaagagaaaa 120
gtaattcatt ctctgacaaa ggggaagaaa gacataaaga aaagcgacac aaagaagggt 180
ttcattttga tgatgagagg caccgctata ctcgag 216

```

<210> 1115

<211> 286

<212> DNA

<213> Homo sapiens

<400> 1115

```

gaattcgcg cgcgctcgac gctttctggt gattgggacc ctgatgcca gtgcccactt 60
tgcaaagaag aaaaagttaa tgacctgct cccttggtc ctgtccatgc ttgcctggcc 120
tcctagagtt ggaggaacaa gccctctcct ggcagaggca ggagagcaag tgctctccta 180
tgatccaata catcaggcgg gagtgctgag tccgtcagga caccactcct cgcagcatca 240
agggtccagt ggggtgggtc agggcagtga gaaggggtgg ctcgag 286

```

<210> 1116

<211> 170

<212> DNA

<213> Homo sapiens

<400> 1116

```

gaattcgcg cgcgctcgac gaagaaaata ccaagtgttc attctgtcat tagcaaggaa 60
caccaatgag gtttcttttt tttctctatt tagggcatat taaaattatc cttcagagta 120
cttgatttga aaatcaagtt tatgctcttg aaaagaatcg tgggtctcgag 170

```

<210> 1117

<211> 191

<212> DNA

<213> Homo sapiens

<400> 1117

```

gaattcgcg cgcgctcgac atttctcttg gaattgggct gctaacaact tttatgtatg 60
caaacaaaag cattgtaaat cagggttttc taagagaaaag gtccctcaaag attcagtgtg 120
cttggttact ggtattctta gcaggatctt ctgttctttt atattacacc tttcattctc 180
agtcactcga g 191

```

<210> 1118

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1118

```

gaattcgcg cgcgctcgac gttcttttcta tggaaccacag ttggaaaaga tcatttggtta 60
accaggggct ctgttcttat agatgcatat cagaatgata cacagtcaga actttgtggg 120
cctcttggtta atgctggaaa tttttcaaca ggcttggaag acagccggac tcgag 175

```

<210> 1119

<211> 205

<212> DNA

<213> Homo sapiens

<400> 1119

```

gaattcgcg cgcgctcgac attctatagg attttctata tacgagatta tgccgtctgt 60
gaaaagagat cgttttattt cttcctttgt gatctggatg acctttattt cttttctctg 120

```

cctaattgcc ctgattagaa ttccactac aatgttgagt atttgtggta agagcagata 180
 ttcttgcttt gtccctgata tcgag 205

<210> 1120
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 1120
 gaattcgcg cgcgctcgac cacagacata gttctaaatg actttcagct atttctagaa 60
 attagacaca tcttcttaag cgaagggtta ccatgtttaa ggttccatga aagaatgtgc 120
 cctaagttgt tgcccagccc ctggctgaga agaaacgggc gtgtgggagg cgggtgaaga 180
 gcacacaggg aggggacgga gaagctctg agccagcctc ctccatggct cagtttcatt 240
 tcagtgcgtg gcacttccca gaagaaacga ctcgag 276

<210> 1121
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 1121
 gaattcgcg cgcgctcgac gggggttccc cctgctgagg agagaccagg tggaccccag 60
 ctgctgtgca ccttctcatc gggacttget gtcaaacct aggatagtct cataaagggg 120
 aggtggtggc agcctgtctc tgtctgtctc aggaccaggc agagagttag gctgggggtt 180
 ctccacacct actccacgg gcacatccca acctgcaactg gggccccacc gagcgcttgt 240
 tctggtctca gccgctccct tggcagctgc agccccatg cagaagaggc tcccaggccc 300
 aagctctgtg tgaccagag aaataatgat gcactcgag 339

<210> 1122
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 1122
 gaattcgcg cgcgctcgac ccatacccag cctgtttaat tctttataat tcacttctgt 60
 tgtgaaaaca gcattttata cttaagctta atgattgcaa cagtcaaaat tatttatttt 120
 ttaaacttca cttatcattt aggaattatt ttcccgcaag gactcgag 168

<210> 1123
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 1123
 gaattcgcg cgcgctcgac attcatctag catggaagg agtgaaacag gttctcgga 60
 ggggttcggat gttgctgca ctgaaggcat ttgtaatcat gatgaacag gtgatgactc 120
 ttgtgttcat cactgtgaag acaaagagga tgatggtgat agttgtgtt aatgttgggc 180
 aaattctgaa gcagaactcg ag 202

<210> 1124
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 1124
 gaattcgcg cgcgctcgac cattattgta aataaaacct aatattttta actatatata 60
 tctttttta tagattacac caccacctc actgtcagat ccacttaaag agctttttcg 120
 acaacaggaa gttgtaagga tgaaactacg ttgcaacac agcatactcg ag 172

<210> 1125
 <211> 164

<212> DNA

<213> Homo sapiens

<400> 1125

```
gaattcgcg cgcgctcgac cgattgaatt ctagacctgc ctaggcacag atgctaatagc 60
aggcactgca ggtaagctgg gcttggtatc ctccctggc ttcagaaaga agccaacaag 120
gagcgttttg cagaatgaaa cctttgtttc cacaagcact cgag 164
```

<210> 1126

<211> 563

<212> DNA

<213> Homo sapiens

<400> 1126

```
gaattcgcg cgcgctcgac atttggtcat tgggaattac tgctattgaa ctagccaagg 60
gagagccacc taactccgat atgcatccaa tgagagttct gtttcttatt cccaaaaaca 120
atctcccaac tcttggttga gactttacta agtcttttaa ggagtttatt gatgcttgcc 180
tgaacaaaaga tccatcattt cgtcctacag caaaagaact tctgaaacac aaattcattg 240
taaaaaatc aaagaagact tcttatctga ctgaactgat agatcgtttt aagagatgga 300
aggcagaagg acacagtgat gatgaatctg attccgaggg ctctgattcg gaatctacca 360
gcagggaaaa caatactcat cctgaatgga gctttaccac cgtacgaaa aagcctgac 420
caaagaaagt acagaatggg gcagagcaag atcttgtgca aacctgagt tgtttgtcta 480
tgataatcac acctgcattt gctgaactta aacagcagga cgagaataac gctagcagga 540
atcaggcgat tgaagaactc gag 563
```

<210> 1127

<211> 217

<212> DNA

<213> Homo sapiens

<400> 1127

```
gaattcgcg cgcgctcgac ctcttagctg agcaggcgag agcatcatgg ataccgactt 60
atatgatgag tttgggaatt atattggacc agagcttgat tctgatgaag atgatgatga 120
attgggtaga gagaccaaag atcttgatga gatggatgat gatgacgacg acgatgacgt 180
aggagatcat gacgatgacc accctgggaa actcgag 217
```

<210> 1128

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1128

```
gaattcgcg cgcgctcgac gaaaaccgct acattgtcct ggccaaggac ttcagaaaag 60
catacaagac tgtcatcaag aaggacgagc aggagcatga gttttacaag tgaccttcc 120
ctccctcca ccacaccact caggggctgg ggcttctctc gcaccccag cactctgtc 180
ccaaaacctc attccctttt ttctttacc agagctctcg ag 222
```

<210> 1129

<211> 185

<212> DNA

<213> Homo sapiens

<400> 1129

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gaattcgcg cgcgctcgac ggctgcagac agacaaacac ctgagctgtt ctgaatacct 60
tcaggttcct ggcctccctg agcaagtga gaaattttta ccttcaagga tcagggtttt 120
tctgtttgtt tgttttttaa cacacatata tctgaacaaa gagtatgcgt ttgtactggc 180
tcgag 185
```

<210> 1130

<211> 167

<212> DNA
<213> Homo sapiens

<400> 1130
gaattcgcg cgcgctcgac cgtgtgagtg tgtgtttgta tacgtctggc aattaaagct 60
ttgtcttctg gaacttagtg aattcttttc tctttttcct ccagaagtat ttgttacaag 120
atttgtaaat aagagctcta cttagtttgt ttaccatgaa cctcgag 167

<210> 1131
<211> 218
<212> DNA
<213> Homo sapiens

<400> 1131
gaattcgcg cgcgctcgac cttttgcttt tcttctctta caattctact ctccttttcc 60
tgtctctttt ccaatctatc ctcatttctt cctcctgcct cctctcttat cctatactta 120
tggtctgtca acttctgtct attctctttt cctctctctt tcccacctgc ctgttcatcc 180
tatttctctc tctgcccgt ctatccccc cgtcgag 218

<210> 1132
<211> 354
<212> DNA
<213> Homo sapiens

<400> 1132
gaattcgcg cgcgctcgac cttcttgatg ttttgtttcc tattttatct ttcgtttttg 60
tgtgtctgca tgggtgtttt cgggcagtg cttctgcat catcaccaca tgtttctctg 120
ctgcccactg tcttgaggtg ggccgctcgt gaagccctgc ttctgcccgt ttgcgggacg 180
agtcccgccc tcttttttcc tgtcccccac ggtagtctgc gtgcacgtgt ttccacagt 240
aaaaccgtgt tgtgtaactc tttccagcaa agtaacaatc cgcattaca aaggctcgtc 300
tccttgatcc agttaacgag tcagaactct tctcccaatc agcagaacct cgag 354

<210> 1133
<211> 464
<212> DNA
<213> Homo sapiens

<400> 1133
gaattcgcg cgcgctcgac agacttgcta ctggaataga agaactacgt actaagctga 60
tacaaataga agctgaaaat tctgatttga aggttaacat ggctcacaga actagtcagt 120
ttcagctgat tcaagaggag ctgctagaga aagcttcaaa ctccagcaaa ctggaaaagt 180
aaatgacaaa gaaatgttct caacttttaa ctcttgagaa acagctggaa gaaaagatag 240
ttgcttattc ctctattgct gcaaaaaatg cagaactaga acaggagctt atggaaaaga 300
atgaaaagat aaggagtcta gaaaccaata ttaatacaga gcatgagaaa atttgtttag 360
cctttgaaaa agcaaagaaa attcacttgg aacagcataa agaaatggaa aagcagattg 420
aaagacttga agctcaacta gagaaaaagg accaacagct cgag 464

<210> 1134
<211> 159
<212> DNA
<213> Homo sapiens

<400> 1134
gaattcgcg cgcgctcgac gttgggttat ttgtctcatt ataagtttta ggaattgttt 60
atatattcta gatatagtt ccgtatttga tatatgattt gcaaatgttt ttctgcattc 120
tttgggttat cttttcactt tcttggtagt gaactcgag 159

<210> 1135
<211> 419
<212> DNA

<213> Homo sapiens

<400> 1135

```
gaattcgcgg ccgcgtcgac aaggaatctg agaaaaagg gttgattgaa agaattctata 60
tggtacagga tattgtttca actgttcaaa acgtcttggg ggaaatagct tcttttggag 120
aaaggattaa gaacacattt aactggacgg tccccctcct ttcattctctg gcctgtttga 180
ttctggcagc agccaccatc attttgtatt tcattccact gcggtacatc attttaatct 240
ggggcataaa taaattttact aagaagcttc gaaatcccta tccatcgac aataatgagc 300
tactagactt cctctctagg gtaccgtctg atgttcaaaa ggtgcagtat gcagaattga 360
aactctcgag cagccacagc cccctgcgga agaagcgcag cgctccaggg cacctcgag 419
```

<210> 1136

<211> 238

<212> DNA

<213> Homo sapiens

<400> 1136

```
gaattcgcgg ccgcgtcgac gcatatcagg agagaagtgg ggagtctttc aggtataccc 60
cgtttccatg tttttggtag taaaagggat gctttgcaaa gcccttgatc agtttcccag 120
cattttgggt tggatgaact tgacaagtgt tgggaagtgg aggggtgttg tggctgatgg 180
tgtctgtttc ccccgagccc gcctgaactg taagcactgt gggaagcagg ctctcgag 238
```

<210> 1137

<211> 220

<212> DNA

<213> Homo sapiens

<400> 1137

```
gaattcgcgg ccgcgtcgac tgggcttcaa ctgtatgttt ttctgtctgc agaagtcca 60
tatattctgt ttcttccttt attgcagcct ctctcagggc ctccaggcgc tgccggctgc 120
tctccttcat gtccacgaca tctttgtaat cccctgcag ggctctctgc agtccgtaga 180
cagcttgga aacggaattt tcacttccat tcagctcgag 220
```

<210> 1138

<211> 326

<212> DNA

<213> Homo sapiens

<400> 1138

```
gaattcgcgg ccgcgtcgac caaggaaatg tgagccccag gctgcagaag gaagagtcag 60
tgaatggctg cgggtgtgaca acatgcacca ccagtggctt ctgctggccg catgcttttg 120
ggtagatttc atgttcattg tggctagcaa gtccatcacg ttgaccttta aagacccaga 180
tgtgtacagt gccaaacagg agtttctgtt cctgacaacc atgccggaag tgaggaagtt 240
gccagaagag aagcacattc ctgaggaaact gaagccaact gggaaggagc ttccagacag 300
ccagctcggt cagccgagtt ctcgag 326
```

<210> 1139

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1139

```
gaattcgcgg ccgcgtcgac ctggaaaatc ccaaaatatt tggaaacct atagcacact 60
tacttctaaa attgtggtag aatacatata acatagaaat tattgttcta accattttta 120
aatgtacaat tcagtggctt taagcacatt cacattgttc tgtttatcta cagaacgctt 180
ttcatcttgc aaaactgaaa ctctgtattc attaaacact aactcccat tttctccttc 240
ccccatatcc ctcgag 256
```

<210> 1140

<211> 320

<212> DNA
<213> Homo sapiens

<400> 1140
gaattcgcg cgcgctcgac gactgatgtt ggagtctatg ctcatctgga tgtacttcca 60
gtcaaaactca atgccccggg ctccgaccca taggggaatg cagcgggaca taataagctc 120
agcagtggcc cagcccaggg cagcaaccat gatcttgtac tctcccttgc cggcattccg 180
ggacatgaca aggttttagac ctatcaggtc tgccacatcc acgctggcct tcatgaactc 240
cccaatgaag tcatagatgc cgccttccca ggtgggaaag aaagtggcca agaacagcat 300
cttcgagagg cggactcgag 320

<210> 1141
<211> 273
<212> DNA
<213> Homo sapiens

<400> 1141
gaattcgcg cgcgctcgac ggctttctct gaaatgccaa agccaccga ttattcagag 60
ctgagtgact cttaacgct tgccgtggga acaggaagat ttccgggacc attgcacaga 120
gcattggagaa tgatgaactt ccgtcagcgg atgggatgga ttggagtggg attgtatttg 180
ttagccagtg cagcagcatt ttactatgtt tttgaaatca gtgagactta caacaggctg 240
gccttggaaac acattcaaca gcacccctc gag 273

<210> 1142
<211> 186
<212> DNA
<213> Homo sapiens

<400> 1142
gaattcgcg cgcgctcgac tcgaggagtg ccctaatacga cgaggacccc caggcggcgt 60
tagaggagct gactaaggct ttggaacaga aaccagatga tgcacagtat tattgtcaaa 120
gagcttattg tcacattctt cttgggaatt actgtgttgc tgttgcctgat gcaaagagac 180
ctcgag 186

<210> 1143
<211> 289
<212> DNA
<213> Homo sapiens

<400> 1143
gaattcgcg cgcgctcgac tgcctcagca cctttgcact ggttgctccc ttagtctgag 60
atccactttt acccattgtt cactttctca ttctattttg gtttctctca aacattgtct 120
cattatagaa accttgccctg acaactctaa catgtcagcc tctctgcgt tcttaggacc 180
tttctctctt cttacctgct ttttctctt cccactatg atttggatc aaaatatttg 240
tgcattttgc aattcagtg ttacagcctg tcaagccacc caactcgag 289

<210> 1144
<211> 534
<212> DNA
<213> Homo sapiens

<400> 1144
gaattcgcg cgcgctcgac gctgccttta ttctctgagc cttgactctg tcccaggcct 60
gccttgagc gcctgcagc tcagctccct gaggtaggtc cggagggaga ccccccgctg 120
ccccccgcc tcggccagga tacctctcac ctcatgtccc ctctccaga cccccacagc 180
cctggatgcc ccatagcagc cctgccacgg ctggcagAAC tgcctccacc ctccaccaac 240
ccccaaagaca ggcaggtega cgcggccgcg aattcgcggc cgcgtcgacg tggagaagga 300
cgtgccgtgc cgtcgggttc tgagccggag tggcgggtgg gtgggatgga ggcgacctg 360
gagcagcact tggaaagacac aatgaagaat cctccattg ttggagtcc gtgcacagat 420
tcacaaggac ttaattctggg ttgcgcggg accctgtcag atgagcatgc tggagtata 480

tctgttcttag cccagcaagc agctaagcta acctctgacc ccaactgaact cgag 534

<210> 1145
<211> 149
<212> DNA
<213> Homo sapiens

<400> 1145
gaattcgcg cgcgctcgac ctaaaccgtc gattgaattc tagacctgcc tcgagaacca 60
ccccccacct tttggcctct tcattttatc cttaaatgtt attcctcaga cctccatttt 120
tttttctctt cttaatcaca ccaactcgag 149

<210> 1146
<211> 138
<212> DNA
<213> Homo sapiens

<400> 1146
gaattcgcg cgcgctcgac tctagacctg cctcgcggaa cttcagtttg taaacagggt 60
ctggtttcac aaggctctaag aactccaggt gaaattcata gacattgtct cctttggcac 120
catgtccttg ggctcgag 138

<210> 1147
<211> 246
<212> DNA
<213> Homo sapiens

<400> 1147
gaattcgcg cgcgctcgac gttttgtctg ctttaaaatt ctgtattata ctgcatgtac 60
tcttttatgg cgtgcttttt tccttgttat tgtatcatga acactagttt gtttttcttg 120
tttttctttt cgttctgttc ctggacattt ttattttcag gatttggttg tatcatatca 180
gaaagaaacc tgtactcaat ggcagttact cctcattttt catcctcttt cccccgaac 240
ctcgag 246

<210> 1148
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1148
gaattcgcg cgcgctcgac gttcactgag caettacata gattaacagt tacaagtttc 60
cataaatcag ttagaatatg actagcttca gggaaggaaat tttcaacaac tgcaatcttt 120
gattgtttta ctgtgggaac ttgcagtgat ataattgaca acattattta acaataatag 180
gtatctcgag 190

<210> 1149
<211> 361
<212> DNA
<213> Homo sapiens

<400> 1149
gaattcgcg cgcgctcgac tgattatagc aaattcatac aaaccagacc taaaagaaaa 60
ctcagaaaagc aacatggcaa tggaaaaaga aattggaaga ccagaggcac aggaggaaga 120
ggcagatggg gaagatgacg tagatggagt agaggaggca gaggaagagg aggcagggga 180
cgagggagtc gaggaagagg tggaggtggc actaggggga ggggaagagg gagaggagga 240
agaggtgctt ctagaggagc taccagagcc aaacgagcac gtattgcaga tgatgaattt 300
gataccatgt tttcaggagc tttcagtaga ctgcctcgaa ttaaaacaag aaaacctcga 360
g 361

<210> 1150
<211> 297

<212> DNA

<213> Homo sapiens

<400> 1150

```

gaattcgcg cgcgctcgac ccactgcgca cagcccatTT atattaaagt gaagttgatt 60
atagtttcat atgtcttaag gaccattaaa aaaatttttt tggTgaatta ttattcata 120
ttttgcttat ttctcaacag gatatttgtt tttttccttc aattttttta agttcttcaa 180
gtattagggg taatgtcatt atctgtgaag tgttttgcac atatttgctc agcttgtttt 240
ttgactttgc ttgttttttg tttttattct tttttgccac acaagccaga tctcgag 297

```

<210> 1151

<211> 346

<212> DNA

<213> Homo sapiens

<400> 1151

```

gaattcgcg cgcgctcgac caagtatgtt ctcagaagct atacactcat tatctgatac 60
ttgtaatcag ggtttactag cattgggcat cagtaagtct gttcaaacac cagatccttc 120
tcattcgtac ggattttcaa atatgcgcta tatttcttcg ctaattagtg gtgttggtat 180
tttcattgat ggtgcaggac tatcttggtt ccattggagtc atgggattgc ttcattcctca 240
accaatagaa tcccttctat gggcatattg tatttttagc ggatcattag tatctgaagg 300
agcaacactt cttgttgctg taaatgaact tccaggaaag ctcgag 346

```

<210> 1152

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1152

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gaattcgcg cgcgctcgac ctgaatgccc catgcgcacc ccacagctcg cgctcctgca 60
agtgttcttt ctggtgttcc ccgatggcgt ccggcctcag cctcttctct ccccatcagg 120
ggcagtgccc acgtcttttg agctgcagcg agggacggat ggcggaaccc tccagtcccc 180
ttcagaggcg actgcaactc gcccggccgt gcctggactc cctacagtgg tccctactct 240
cgtgaactcc ctcgag 256

```

<210> 1153

<211> 181

<212> DNA

<213> Homo sapiens

<400> 1153

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gaattcgcg cgcgctcgac tagaagtga cagagaatta cacaagtgtg actatacaaa 60
ttgtaaaaca gatactataa tatttccttt tatttttagt ttatttagct ttattacaga 120
tttctatttt tgtcaaaaact tcatggttcc tttcaagatc ttttttgcca aaacactcga 180
g 181

```

<210> 1154

<211> 304

<212> DNA

<213> Homo sapiens

<400> 1154

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gaattcgcg cgcgctcgac agaatatatt attcccacag gaaaaactca gaaaagggtgt 60
gtaaaatcct cagaaggggg agcagttgat tcagtaagac tgcgacaatt taatactgtt 120
acgcttgctt tgatacctga ctaaaatgtga ctgagtgcac caagcattta agaaaatttt 180
tagacagtgt tttgtttaga attcagggat catgcattct ttaattggtg tgtttgtttt 240
ttatttcttt tctacaaaga aaacaagtgt tgcctacaaa agtgactgct cacaatacct 300
cgag 304

```

<210> 1155

<211> 194

<212> DNA

<213> Homo sapiens

<400> 1155

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gaattcgcg cgcgctcgac attggatttt ggtccatagt tggaggctgt gttgttgaa 60
tagctatggc aaggtttgca gattttatca ggggtatgct gaaactaatt cttctcctcc 120
tgttttcggg agctacactg tcattccacgt gggtccacct gacctgtttg aacagcatca 180
cacaccccc ctag

```

<210> 1156

<211> 537

<212> DNA

<213> Homo sapiens

<400> 1156

```

gaattcgcg cgcgctcgac gcttagaggt catctttcaa ggaggcatta aatatcaatt 60
ataaattatt aagtcagata aatatgcctg accttttcac agttgaaaaa atacattttt 120
tccccctctat caaatgccaa gtttttagtg gaaatgctaa tggcagtggg aaagggttgc 180
tcactttcag agagactctc gctgtctgca cctttttaat aattgctctt cctggcaagg 240
ctgccacttc cctgcctccc cagctggcag tggggcaacc caggcctgtt tccagctacc 300
tgcaaaagcca gacctagacc tgccgtagct gttgtcccat gcctaattct agttacagga 360
agccatccct gtaccctggg tccattcaca ggaatgggtt ccagaggagg ctgatagaag 420
ggtttgaaat gactggctgg atcccttctt gctcagacac agtggtagct ggagagcagg 480
cagagatggt agaattgcag gtttgaccac ctgtcgtgac ccagaagct actcgag 537

```

<210> 1157

<211> 580

<212> DNA

<213> Homo sapiens

<400> 1157

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gaattcgcg cgcgctcgac cacttttaaa aaacaaaaaa agacaagaga gatgaaaacg 60
tttgattatt ttctcagtgt atttttgtaa aaaatatata aaggggggtgt taatcgggtgt 120
aaatcgctgt ttggatttcc tgattttata acagggcggc tggttaatat ctcacacagt 180
ttaaaaaatc agccctaat ttctccatgt ttacacttca atctgcaggc ttcttaaagt 240
gacagtatcc cttaacctgc caccagtgtc caccctccgg ccccgctctt gtaaaaaggg 300
gaggagaatt agccaaacac tgtaagcttt taagaaaaac aaagttttaa acgaaatact 360
gctctgtcca gaggttttaa aactgggtgca attacagcaa aaagggattc ttagctttta 420
acttgtaaac cacatctttt ttgcactttt tttataagca aaaacgtgcc gtttaaacca 480
ctggatctat ctaaatgccg atttgagttc gcgacactat gtactgcgtt tttcattctt 540
gtatttgact atttaactct ttctacttgt cgcctcagag

```

<210> 1158

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (27)

<400> 1158

```

gaattcgcg cgcgctcgac ctgccangtg gatgagaagt gattacctgt ggaaattcat 60
agtgttatct ttttatagca ttcatctaca aagggttgat ttatgtaggc ctttctctt 120
tgttctttat tgcagatatt caagagaagc ttatgtggag ttagttcacc atattagaga 180
atctattcca ggtgtgagcc tcagcagcga tttcattgct ggcttttggt gtgagacgga 240
ggaagatcac gtccagacag tctctttgct cggggaagtt cagtacaaca tgggcttctt 300
ctttgcctac agcatgagac agaagacacg ggcatatcat aggcgtgaagg atgatgtccc 360
ggaagaggta aaattaaggc gttcggagga actcgag

```

<210> 1159
<211> 198
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (30)

<400> 1159
gaattcgcg cgcgctcgac agattatatn acaatttata ttcaattcta gattctaagt 60
ttcttttggg caagaatatt tattttccct gtgtcaattc agggactcca ggaaacagaa 120
gctaagaaca gaagcaagtg ctggagattt actgagaggt tacacttgtg gaagatgaag 180
tgtagcggca tcctcgag 198

<210> 1160
<211> 186
<212> DNA
<213> Homo sapiens

<400> 1160
gaattcgcg cgcgctcgac attaaagggt aagttctgca aatgggagag tgttcacagt 60
agatagctca gattgattga acacatttga ggaagagact cctgcatgag ataccagcat 120
ttttacaat acittttatg tacattcttt attttgcatt tttgtcaacc ctctccccaa 180
ctcgag 186

<210> 1161
<211> 298
<212> DNA
<213> Homo sapiens

<400> 1161
gaattcgcg cgcgctcgac gcttggcaag gagactaggt ctagggggac cacagtgggg 60
caggctgcat ggaaaatatt cgcaggggtcc cccagggcaga acagccacgc tccaggccag 120
gctgtcccta ctgcctgggtg gagggggaac ttgacctctg ggagggcgcc gctcttgcatt 180
agctgagcga gcccggtgct gctggtctgt gtggaaggag gaaggcagg agaggtagaa 240
gggggtggagg agtcaggagg aataggccgc agcagccctg gaaatgatgc aactcgag 298

<210> 1162
<211> 224
<212> DNA
<213> Homo sapiens

<400> 1162
gaattcgcg cgcgctcgac gccagttata gactgtccag catccaagac gtttcgggta 60
tgctgggtcc tcagatcgcc tctgacttgt taccacaaca aatcattttg atttcagtgc 120
ctgttgggga cttgatttct tctcagtttt gtttgtttgt ttgtttcctt aatctggctc 180
atttgaaatt tcttctccct ctcaaccatc ccactaatct cgag 224

<210> 1163
<211> 314
<212> DNA
<213> Homo sapiens

<400> 1163
gaattcgcg cgcgctcgac cccatggcca cctgttcta tgagctcacc agctccaccc 60
tgagatatt aacagtgaac actgtcaagc agacacctaa ccacatcccc tcaacgatca 120
tggaaccac ccagcctcca gtagaaacca ctgttcctga gatccaggat agcttcccat 180
acctgctgtc tgaagacttc ttgggacagg aaggccccgg gccagggtgca agtgaggagc 240
ttcatccac cttggagtcg tgtgtggggg acggatgtcc tggcctcagc agaggccctg 300

tgatcgccct cgag

314

<210> 1164

<211> 219

<212> DNA

<213> Homo sapiens

<400> 1164

gaattcgcg cgcgctcgac gtaataaatt attcactgtt tcttttggtg actgtgattt 60
aaaaaaagaa aaaagaaaaa aaagctttat acgttttagg ttgtgctttt gtaatagatg 120
aaaaaagggtg cgcttaaaaa gaaaatgtat gtttttttcc ccttttggat tttatttatg 180
ctggattggg gaaagttgca gaatgagcgc caactcgag 219

<210> 1165

<211> 174

<212> DNA

<213> Homo sapiens

<400> 1165

gaattcgcg cgcgctcgac atccctcagt gaacatttgg gttgcttcca ccttttaact 60
tgtgtagctt tttttggggg gatattttgg ctctcaaaag gacaaaggaa aaaattaggt 120
tcagttgcta ggattactca catgagggtg ggcattgggca ggaccatact cgag 174

<210> 1166

<211> 221

<212> DNA

<213> Homo sapiens

<400> 1166

gaattcgcg cgcgctcgac gatacttatt gctgctcttg caccaatatg ctttccgaag 60
tgctgttgtt tctcttcaa tatttgacac tttgtggtga tatccaacta atgctggccc 120
agaatgcaaa taatagagca gcacaccttg aagagtttca ttaccaaaca aaagaagacc 180
aggagatcct gcatagcctt cacagagagt ccaccctcga g 221

<210> 1167

<211> 118

<212> DNA

<213> Homo sapiens

<400> 1167

gaattcgcg cgcgctcgac tgggttttca catgctatct caggcttgcc ttttttatct 60
gtattttctt gtagcagttt gtcgacctga gaaatggcct cttcccagca atctcgag 118

<210> 1168

<211> 248

<212> DNA

<213> Homo sapiens

<400> 1168

gaattcaaca agaggcagtt ctttactaat caacatataa cttgaatacc tgggcaaaga 60
caaattattc aggtggacaa agaaataaat gaataaaagt gggattcaaa tttttgattt 120
cataagttcg gaaataagta atcaagaaac ctaactaata aaccacacaa tcaatgattt 180
gcaaacttga acaccaaaga aaaagatatt ttatggtaac tatattcatt tttttgttc 240
tccctata 248

<210> 1169

<211> 195

<212> DNA

<213> Homo sapiens

<400> 1169
 gaattcgcgg ccgcgtcgac cagcctggaa ggtaatgcat gtccatggta cacaaattca 60
 caaggttttgt aaatgagaaa agacgtgagg ttctttttgt tctttacctg tggcctccct 120
 gccctacacg gggactctag ggtggaatgt agcaaagccc atccaccagc catgtactac 180
 cccccccgcg tcgag 195

<210> 1170
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 1170
 gaattcgcgg ccgcgtcgac gtgggtggaca gctgtagtga taatgttgat agtaggtata 60
 ataacaccag tgtttttattt gttgtattat gaaatttttag ctaaggtgga tggtagtcat 120
 cattcaacag tggactcttc acattttacat tcaaaaatca ccccccatc acagcagaga 180
 gaaatggaaa atggaattgt gccaaactaaa ggaatactcg ag 222

<210> 1171
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 1171
 gaattcgcgg ccgcgtcgac tagaagaaac ccagaaattc agtcttttct gttttattgg 60
 cagtggctag catgttctctt ggggtcaacta aagttcgaag caggcccata agctggactg 120
 ctctccaag ttcaggatct gtatcacaaa tcatatgttc tataatgagg ttgatgagca 180
 aaatatcctt gctggttatt ttttgccttg ttaacttctt acttacatca tcattctggt 240
 gtgcctcctg catgacaaac tctcgtacca tggatggatt atattcaacc aagtatgaga 300
 atatatact cgag 314

<210> 1172
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1172
 ggaattcgcg gccgcgtcga cgcatttatt aaccagagta cttgtttgca attttttatc 60
 tgtgaaaata ttttaagct cttacaaaac ttaaatTTTT aaaaaatcag ctcaaaaatt 120
 ttttccatgt tgttgggcat accactgctg tctctgcttt cggtttccca actcgag 177

<210> 1173
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 1173
 gaattcgcgg ccgcgtcgac gtttgaggaa cctgtgtgaa aatccatact ttagcaatct 60
 aaggcaaaac atgaaagacc ttatcctact tttggccaca gtagcttcca gtgtgccgaa 120
 ctttaaacac ttccgatttt accgtagcaa tccagaacag attaatgaaa ttcacaatca 180
 aagtttgcca caggaaaattg caaggcactg catgggttcag gccagctcg ag 232

<210> 1174
 <211> 252
 <212> DNA
 <213> Homo sapiens

<400> 1174
 gaattcgcgg ccgcgtcgac ccagactata tagttcaaag agaattccta tttttcgta 60
 ggtatgcaac aaaacaatgc agtttgtatt atatcgatt ttgtattgta ttatatgatg 120
 ggtctcactc tgttaccacg tctagagtgc agtggcacga tcacagctca ctgcagcctt 180

gacctgccag tctcaagcaa tcttctctacc tcagctctccc aagtagctga gaccacaggc 240
actcaactcg ag 252

<210> 1175
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (13)..(14)

<400> 1175
gaattcgcg ccnngtcgac gcatatactg ccatgtcaga ttcctactta cccagttact 60
acagtccttc cattggcttc tcttattctt tgggtgaagc tgcttggctt acgggggggtg 120
acacagccat gccctactta acttcttatg gacagctgag caacggagag cccacttcc 180
taccagatgc aatgtttggg caaccaggag ccttaggtag cactccattt cttggtcagc 240
atgggttttaa tttctttccc agtgggattg acttctcagc atggggaaat aacagttctc 300
agggacagtc tactcagagc tctggatata gtagcaatta tgcttatgca cctagctcct 360
taggtggagc catgattgat ggacagtcag cttttgccaa tgagaccctc aataaggctc 420
ctggcatgaa tactatagac caagggatgg cagcaacact cgag 464

<210> 1176
<211> 170
<212> DNA
<213> Homo sapiens

<400> 1176
gaattcgcg cgcgctcgac ctttgggtat catatcctga atatatgaag ttcattaagc 60
actttctcct catctccctt agaaggctct ctttctccca gggtaggggt ggggaagagc 120
tgacaggaca ccctaagtc atcctgattt tgcagaacc aaggtcgag 170

<210> 1177
<211> 207
<212> DNA
<213> Homo sapiens

<400> 1177
gaattcgcg cgcgctcgac gtgattgtgt tttttaaag ataagtaatt tgatgaactg 60
ttcttttgca gtcagaaaa actcacaaaa agacaaaaaa agttccacag tattatattt 120
catgtcagtt caggcctaaa atcctttgca aataagatgt ttataggctg gtcacaatta 180
acaatgttat tattggcaac actcgag 207

<210> 1178
<211> 163
<212> DNA
<213> Homo sapiens

<400> 1178
gaattcgcg cgcgctcgac attgaattct agacttgctt ctctctctc ctctaccctc 60
acttctaatt actaggtaca tttctacctt gctttcaatt ctaccttgct ggtgtttttc 120
attagtcatt ttttcccat tgtctcttac cacacaactc gag 163

<210> 1179
<211> 313
<212> DNA
<213> Homo sapiens

<400> 1179
gaattcgcg cgcgctcgac caaagatgtg tacaaaaatt tatcttttca gccctcaaatt 60

```

attgattttg aacattatct tgcaaagagt actaagtggt tggttagtgg agatagagga 120
atatgcagct tttagactatc ttccctttcc cgtcagtagc agctttcatg atacaatttc 180
ctcttatcac tttagtcaag aggtggggca gaaaattttg agttacagta tcattcgaag 240
agaatttatt tctgccttcc atgttatagc cctaaggga tccaggaccc gaaaggccag 300
cttctccctc gag 313

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<210> 1180

<211> 227

<212> DNA

<213> Homo sapiens

<400> 1180

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gaattcgcgg ccgcgtcgac ggcataagata agtttatgga agacctaaaa gatatgctgg 60
gctttgctcc cagcagatat tactactata tgtggaaata tttttctcct ctaatgctat 120
tatcattgct aatagctagt gttgtgaata tgggattaag tcttcctggc tataacgcat 180
ggattgaaga taaggcatct gaagaatttc tgagctatcc actcgag 227

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<210> 1181

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1181

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gaattcgcgg ccgcgtcgac atttgcaca aacgctgtta actggactca cacatactat 60
gtgtacctta atgatttatt tactctatgg acagttatta gaacatctgg tatgtgggta 120
cccgctcgga gccaaggaga ttagggcgtg ggggctgcag tgtcagcctt cccgggagtg 180
cacggtccag ccagggaccg ggggtccctg ggagctgtgc ttcagaagct tactgactga 240
tgaaagcctc gag 253

```

<210> 1182

<211> 153

<212> DNA

<213> Homo sapiens

<400> 1182

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gaattcgcgg ccgcgtcgac cttctatata actgaaatag ttccttgaac atttgataaa 60
gttttccctta gaaagaaact ggatttggtg cttcattagt aatagttaac tgatcacatg 120
ctaatttttc cctgttctct gtatttactc gag 153

```

<210> 1183

<211> 158

<212> DNA

<213> Homo sapiens

<400> 1183

```

gaattcgcgg ccgcgtcgac caggcatcca caaagaaga ccaagctttg tccaaagagg 60
aagagatgga gactgagtca gatgcagagg tagaatgtga cctgagcaat atggaaatca 120
ctgaagagct ccgccagtac ttgcaaaagt cgctcgag 158

```

<210> 1184

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1184

```

gaattcgcgg ccgcgtcgac gtccaagtgc tccattatca ttgtttacag gctattcttc 60
tactgaattg cttttgctcc ttggccaaaa gtcagataga tgtattttgt tgggttggtt 120
gctgggtttt tgaattcttt tctgttgatc tctgtgtctg ttctctgtc tataccacac 180
tgtcttggtt actgtagctc tagtgatagg tcttcacatc aagcaagaat gctcactgcc 240
cccctcgag 249

```

<210> 1185
<211> 151
<212> DNA
<213> Homo sapiens

<400> 1185
gaattcgcgg ccgcgtcgac cctaaacgt cgattgaatt ctagacctgc ctcgagggtga 60
taaccctatc tctacaaaaa aaagaaaaaa aaaaacaaaa aaaaacttag ctagggtgtgg 120
tggcatgcgc ctgtgggtccc ggctactcga g 151

<210> 1186
<211> 267
<212> DNA
<213> Homo sapiens

<400> 1186
gaattcgcgg ccgcgtcgac gtttatttca cagcactgag gaggaccagc atgcattctt 60
ctcttaaacac aagtcogaat caacaacctg acactaactt ggctcatggt ggagctcaca 120
gttttgcctac agaaaatatt attgggggat ctgaacaatg ttttgaacag cttcagccag 180
aatattcttc acaggaggag agccagcatg ctgatctacc aagtattttt agcattgaag 240
caagagattc ttccaaggc actcgag 267

<210> 1187
<211> 230
<212> DNA
<213> Homo sapiens

<400> 1187
gaattcgcgg ccgcgtcgac cgatgacgac gaggaggaga agctcaccac agtgaggcca 60
gggggggttcg tggccgtgtt ctgtcccgtg aggccttttc gccagacggg gcagctgtcg 120
tgctgtctcca gccagggcac gatgcagccg tcgtggaaca ggtgggttgca gggcagctgc 180
cgcacacgct caccacgcgc gtatgtcgtcc ttgcacacag ggcactcgag 230

<210> 1188
<211> 184
<212> DNA
<213> Homo sapiens

<400> 1188
gaattcgtgg ccgcgtcgac cttgtagaga gtgacaaggt attgtttgtt tccctatgtg 60
ctgtttgagc agtattttta ccaacttgta ttacagatgt tacagttcca tgttaggaag 120
tcagaaaaga cttgtgtttg tctttgttct gctgatgtgg agtcatgttt ggtgggggtct 180
cgag 184

<210> 1189
<211> 201
<212> DNA
<213> Homo sapiens

<400> 1189
gaattcgcgg ccgcgtcgac ggtttagtc tcaagaagtc ttggctatta aggggcactt 60
atccatacaa cctctacttt ttctaggcac taaaaggggg aaaaggctta atagccaaaa 120
tagttatcaa aagaccctaa agctggggtc ctgtacacca tgaaaggatt actttcatte 180
tcatgtaagg gactactcga g 201

<210> 1190
<211> 228
<212> DNA
<213> Homo sapiens

<400> 1190
 gaattcgcg cgcgctcgac cttggagaac agacttaata tgatccagtc ttcctatatt 60
 tattttatatt tgggtacagat ggggggtcttg tctctctgtg ttgcacaccc aggtctgtct 120
 ccagctcctg gtgtgtccag aattgggtcc ttcagtggtg ttcttggtct cgctgacttt 180
 aagaataaag cgcgcgaccc tcgaagttag tgttacagtt ctctcgag 228

<210> 1191
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 1191
 gaattcgcg cgcgctcgac cgagttgatg gggctccttg acatatgttt ttccaaaatt 60
 tttgaagcct ttccaaattc ttgtttttg atacaaataa tgacagcagc ttccttgacc 120
 agttttctac tggattcgac cactgcttct gtcagtgtaa attccgtttt aatcatctcc 180
 agcacattga tagctgattc cagtgggtgt agctcagcct ccatatcaaa ggaacagtct 240
 aaattttccc ctcttccaat cgcgacaga ctcgag 276

<210> 1192
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 1192
 gaattcgcg cgcgctcgac cagaacttta ttttagctct tttttaaaaa tgatttgcatt 60
 gggttagaaaa cggcgaggac agccagggga gggaagggcc tctagggaa tttgcacttt 120
 ctataaccttt gtactatgca ctgccctatt gattctacac ccaataatga tattacttga 180
 acccatccac ctcgag 196

<210> 1193
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 1193
 gaattcgcg cgcgctcgac ttcctcgatc atttcaaaga tgcttaaagc agattttctat 60
 gttctggaaa aaacaggact ttccattcag aactcatctc tgtttccaat actgttacat 120
 tttcatatca tgggaagccat gctgtatgcc ttattaaata aaacttttgc ccaggatggg 180
 cagcatcagg tgctgagcat gaatcgaaat gcagtgggga agcattttga actgatgatt 240
 ggtgactccc ggactagtgg aaaagagcta gtgaagcagt ttctcttcga ttctatacag 300
 aaggcggatc tcgag 315

<210> 1194
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 1194
 gaattcgcg cgcgctcgac ccattcagtg aggaaccatc caaaactgct aaacagaaaa 60
 ggagaactat aattctagga agtggtcaca aaggaaaagc tactattaga attggattgg 120
 ctacaaaagaa acctgtaagt agtggcagaa aacactccct tggtaaagaa tattatgcgc 180
 cgcacacctc tccacctggg gtgtctgggt tcttgccgtg gcgtactgca gaacgtgcaa 240
 aaagacacag gggtttccct cgag 264

<210> 1195
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 1195

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gaattcgagg ccgcgtcgac gaggatagca ggcgtaaata cctactgtaa tacaatgtca 60
ctgtgtttcc tctgcactgt tcccttccac ttcctcatcc tctttgtgac atggaagtcc 120
attgtcatag cttcagcttc agaagctgtc tgtggcattt gtaggattca aactcatgga 180
aaattccctc ctcttccccc cccactcgag 210

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<210> 1196
 <211> 207
 <212> DNA
 <213> Homo sapiens

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<400> 1196
gaattcgagg ccgcgtcgac ccccccgcga cctctgtctc caagccaate aaccagtcac 60
caagtcctat caatgctatt gctgaaattt ctcttgaate catctacttc tttccacgtc 120
cacagccacc atcctacccc cagccttcac ctctcttttc ttgatgatgg catgacctcc 180
taccagttt cccggcaact actcgag 207

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<210> 1197
 <211> 272
 <212> DNA
 <213> Homo sapiens

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<400> 1197
gaattcgagg ccgcgtcgac cgcacctac atttaccttc cttatatctc ccccgctctc 60
ctctccatag atctcctccc atttcccttc ccatggctcc catcttcttc ctgaaatgtc 120
tactccttca tgttctctta tgtatgtctt ccaatctttc cttccatagc tctcatcacc 180
ttcatatatt ttttccatct ttctcctccc acctgcctcg cctctgtgat atacccccac 240
tctccccctt ttatatcttc tccacactcg ag 272

```

<210> 1198
 <211> 263
 <212> DNA
 <213> Homo sapiens

```

<400> 1198
gaattcgagg ccgcgtcgac cattgagaga gggaggaaag ttttatcatg acagaaatgc 60
tcatactctg aggatataat agagagtga tcttgaggga tagaattaat caaacaactc 120
ttcttgatgc tggatatttt agcctaaagg aaaatataat acatgagttt agcttttaat 180
gtttcaacag cttcactgat tgtccagaag tcattgtgtg cccactttcc tcatgtgttc 240
atctattgcc agtgttcttc gag 263

```

<210> 1199
 <211> 343
 <212> DNA
 <213> Homo sapiens

```

<400> 1199
gaattcgagg ccgcgtcgac ctggcgaggc gagcgcgccc gacagcagct agaggcgctg 60
ctcaacaaga ctatgcgcat tgcgatgaca gatggacgga cactggctcg ctgcttcttc 120
tgcaactgac gtgactgcaa tgtcatcctg ggctcgcgcc aggagtctct caagccgtcg 180
ggtcagtgcc cggggaatgc acaccgcct ggtaatgttg cggaaacctta cgcaaggcat 240
ttccccctaa gggcctggct gcaacccttg tttctcgggg ctcgttttcg tggctcagag 300
gggcggggact gattctggcc tactttctcg acactcactc gag 343

```

<210> 1200
 <211> 187
 <212> DNA
 <213> Homo sapiens

```

<400> 1200
gaattcgagg ccgcgtcgac ccaagattct gttaggattt ctgtgcatat agttagtagta 60

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agaagtatca ttcaggggtg aaaaacaaag agccgtttta atgatgttga gtacatttgg 120
ctgtttttata gcctttttct tccctccccc aaagaattct gtttgccctaa ctcccaaaca 180
gtcgcag 187

<210> 1201
<211> 261
<212> DNA
<213> Homo sapiens

<400> 1201
gaattcgagg ccgcgtcgac ctgaccttgg aagatatccc tggaattccc aagcaaggca 60
atgcaagttc ctccaccttg ctccaaggta ctgggaatgg cgttcctgcc actcaccctc 120
accttttgtc tggtcctctc tgctcctctc ctgccttcca tctggggccc aacaccagcc 180
agctgtgtag tctggccctc gctgactatt ctgcctgtgc ccgctcaggc ctcaccctca 240
accgatacag cgcattctga g 261

<210> 1202
<211> 280
<212> DNA
<213> Homo sapiens

<400> 1202
gaattcgagg ccgcgtcgac cttgatccag cctgggtaac aaagcaagag cctgtctaaa 60
aaaaaaaaaa agccagggtta tttttgtttg ttttgttttg tttttccctt tctcagttac 120
tcattccttt tagattgaag gattgatgca tttatttatt tatttattct tttaccaagc 180
ctcattgact ttatgttttg agaagaggat tctgctaaat tcttgggatt attcagaggc 240
ttatacacca acaaaagaaa aagaaagcca acaactcgag 280

<210> 1203
<211> 155
<212> DNA
<213> Homo sapiens

<400> 1203
gaattcgagg ccgcgtcgac aaaaaaaaaa agaagtactt cacattactg tcacaaaaag 60
tagattccac caccagagta ttgcaactt ggaatccagg ctgctaataa ttgttttggg 120
aggaaagcat gatagtgtta ggattcgac tcgag 155

<210> 1204
<211> 307
<212> DNA
<213> Homo sapiens

<400> 1204
gaattcgagg ccgcgtcgac gttttgttat ataggtaaatt ctgtgccgcg gtggtttgc 60
gccccatca acccatcagc taggtattaa tcgtccatct tttaaagtc actttaactt 120
ccacttttcc atgaagcttt tctgatctt cctcctcctt ccattcctga aaatccttgc 180
agtttgttct gcagcatcac acctagtgtc tagccatccc tactttgtcc ctacactttt 240
tgaattgctt accaacaact tagagaggga gctagagatt gttgctggcc attgctccaa 300
actcgag 307

<210> 1205
<211> 586
<212> DNA
<213> Homo sapiens

<400> 1205
gaattcgagg ccgcgtcgac agagaaatga aacggaagag aaaaaagga gtttctgcc 60
ttcagagaga gctcaactgc ctgtgtgttg ctacagctcc ctccctgtt cacaaaaagt 120
caaagtcac acctcaaaact caaatctatt tttaaataag aaagaaggcc agtgaagagg 180

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ggcaggcaag atgtggccaa ggaaggcatt ggggaaaagg taacatttgt actgggagtt 240
tggtagatga agaaggtaag aaggagaagt acagacagtt aaagatggca ttgaaattcc 300
agagtcccgaggaggagtt tgcagggaca gcagggtggca cttgatgagt tagaatttca 360
gatgtgatga gtttgaagca cctgggaggc atctaagtag acatgattac cagacacctg 420
gagctgaata agaggtcctg gagatattga tttagagggtg attgttctct catccatgta 480
tccattcatt caccagggca agggaaatgt gtacagtacc tactctaggc aggccctatg 540
ctggatattg ggaatacaat gatgaacaaa acagatgccg ctcgag 586

```

<210> 1206

<211> 276

<212> DNA

<213> Homo sapiens

<400> 1206

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gaattcgcgg ccgcgtcgac gcctcgatca ctgcatttgc acagggtgaa gtctgtgtgc 60
ggcaagttag tgagggcctt cagcaggatc tgggcggtga ccgtgggtctg aaagaaggct 120
gggttgaact ggtacagctt caggacagcc aggttggtct ccagatcata ggcatattcc 180
ttggcctgcg tctctacata gcgctccagg gtggccagggt tctcaggatt gtacctgtcg 240
ataccctcgt cgattgaatt ctgacctgc ctcgag 276

```

<210> 1207

<211> 218

<212> DNA

<213> Homo sapiens

<400> 1207

```

gaattcgcgg ccgcgtcgac atttgtttag cctgttccct gagctctctt cgtgatcaag 60
aagactgac agataaatca agagacttgc caaaattac ctaggaaac tgtagcagca 120
gcagaaccaa actccggtcc ttgctaaatc tagataccag gctagctttt ctatggacc 180
agaattaacc catacaaatg tacaagctta tctctgag 218

```

<210> 1208

<211> 398

<212> DNA

<213> Homo sapiens

<400> 1208

```

gaattcgcgg ccgcgtcgac ccgagcctca gttgtcttct ctgtgagggtg ggaatgccgg 60
tgaatcctgc cgctggcgtg gatgagaagt gaatgcgtgc tcggagctgc gagtgcacgc 120
gggcaggagg cggccaggga cacttggttt ctccagggtt ggaaggcttc tagaagggtc 180
ctcatcaagg gaagtgtggc tgggggcgcc gtctacctgg tgtacgacca ggagctgctg 240
gggcccagcg acaagagcca ggcagcctca cagaaggctg gggagggtgg ccccccgcc 300
atgtaccagt tcagccagta cgtgtgtcag cagacaggcc tgcagatacc ccagctccca 360
gccctccaa agatttactt tcccatccat cactcgag 398

```

<210> 1209

<211> 456

<212> DNA

<213> Homo sapiens

<400> 1209

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gaattcgcgg ccgcgtcgac agaagggatc actcccatta gggcctgctt tgettattga 60
tgtgtgtgca catgcatgta aaccagggac ctccagctca cggcctccag gcctgggcca 120
gttcttgctg ctccctgcgt ctccccgac tggctgtgtc ctgagtaact ggaacatgag 180
actgtatctg caggactggc cccatggtgg ccgagtcaga agtctgtttc ctgtgagtgc 240
ccaccgttca ctacgtcttg cctccccatg ctttggagcc agtctgggtg ctccgtgaag 300
gttctcaagg ctggtggcag ctacgtctgg ggtcaggaca tgtcggggtc atgcgtttct 360
ggcctgaca taagctgtct ggcctctctg tgacatgatg aaattgaaat caatccacag 420
tccatgaaat tgtgacactc caccagatat ctcgag 456

```

<210> 1210
<211> 408
<212> DNA
<213> Homo sapiens

<400> 1210
gctcagggtc catatggata atcttcaagg gtaaattcac tgagatgaac tgcaaactcc 60
cctttccaca tgcagcagca ggacatacat gtccctgatgg gtttgtgtaa ccctgccaga 120
atggctggca ggacaagtta actatcattc ccttcacaaa tcagtcagtc aggaaatccc 180
tacgtgggaa ggatcacagg gcctacaaag aggcagtgac agcaaaactt cagctgctat 240
tgaatctgaa tgcatttctg gttttttaac cagatcccca gcaagtaatt ttaacagccc 300
gtaaatgtag agtatgctag actatgagga cacagatgcc cagcccagtg tgggggggtaa 360
gttctacact gcactgtcct tccacagggc ccctcagggt cactcgag 408

<210> 1211
<211> 389
<212> DNA
<213> Homo sapiens

<400> 1211
gaattcgcgg ccgcgtcgac attacaatta tcatgtcac acctaatagt atattctatg 60
tctctttggc tgtctatctt gatcaagtca ttccagggga atttggtta cggagatcat 120
ctttatattt tctgaagcct tcattattgt caaagagcaa aagaaattat gaggagtat 180
cagagggcaa tgttaatgga aatattagtt ttagtgaaat tattgagcca gtttcttcag 240
aatttgtagg aaaagaagcc ataagaatta gtggtattca gaagacatac agaaagaagg 300
gtgaaaatgt ggaggcttgc agaaatttgc catttgacat atatgagggt cagattactg 360
ccttacttgg ccacagtgaac aactcagag 389

<210> 1212
<211> 402
<212> DNA
<213> Homo sapiens

<400> 1212
gaattcgcgg ccgcgtcgac ccgcctcag cctccgaaag tgctgggagt acagggtgta 60
gccactgcgc ctggcctcat tgtactcctt aacacaagaa gacttcaaca atgataagta 120
gttgtttata aggaagcagg atcattacca aaataaatcc tgctaaaaca acaggaatca 180
tgttttaaaag cctagtttgc taatttttgc tagtaggata agagtgcacg taatatctcg 240
aacattacat agacacttaa aacctttagt tgtatttcat caaaaatctg ttcatacccc 300
acgttggttt caaaacatac tatgcttttt ctccgtgtta ttctctatat tcatttttgc 360
gtgtatgtgt atgtcacaaa tattgatatg cctgggctcg ag 402

<210> 1213
<211> 168
<212> DNA
<213> Homo sapiens

<400> 1213
gaattcgcgg ccgcgtcgac gagggtgatg ggcggtgtct ggggcttcgt cggtctcttg 60
gtgccttggt tcatccctaa gggtcctaac cggggagtta tcattaccat gttggtgacc 120
tgttcagttt gctgctatct cttttggctg attgcagcaa acctcgag 168

<210> 1214
<211> 180
<212> DNA
<213> Homo sapiens

<400> 1214
gaattcgcgg ccgcgtcgac caaaaaagtc cttttgaaaa agttgatgat gatgattttt 60
acatcagaga atatctttag atcacgttta agagatgatt actgggtgta tgtagatag 120

caagtactgt ggatgggttta aggggtgaata ggaaatatct agatgttaag ggggtctcgag 180

<210> 1215

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1215

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gaattcgcg cgcgctcgac cagcaatccc tccctaggtc aatcgctccc aaacccttaa 60
ccatgagact ccccatgaac cagattgtca catcagtcac cattgcagcc aacatgccct 120
cgaacattgg ggctccactg ataagctcca tgggaacgac catggttggc tcagcaccct 180
ccacccaagt gagtccctcg gtgcaaatcc agcagcagat gcagcagcag catttccagc 240
accacatgca gcagcacctg cagcagcagc agcagcatct ccagcagcaa attaatcaac 300
agcagctgca gcagcagctg cagcagcgcc tccagctgca gcagctgcaa cacatgcagc 360
accagtctca gccttctcct cggcagcact cccctgtcgc ctctcagata acatccccca 420
tccctgccat cgggagcccc cagccagcct ctcagcagca ccagtgcgaa atacagtctc 480
agacacagac tcaagaatta ctcgag 506
```

<210> 1216

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1216

```
gaattcgcg cgcgctcgac gtaatcttact aaggtttgaa atggtattct aacagtgcgt 60
ccattgtctt gaggattaat ctgatttata agtaatactg atagacatat ttctgtacat 120
ctgagcagaa ataatgtcat gttctctagca tatgtaatat aaaaactctc gag 173
```

<210> 1217

<211> 287

<212> DNA

<213> Homo sapiens

<400> 1217

```
gaattcgcg cgcgctcgac gaacggtaat tacattgaga tttttaaaaa tatataaatg 60
cttaaaatta cagaagtaat aaaaagaatg gttttagaca aatcttatgg aaagtttttt 120
attttattct tttataatta tttttatgga tatttgctct tattagtgtg gtaatatatt 180
ttataacgct cataatttga actttcaggc taatgtacta taaatatttg tattacgcac 240
tactaccatc ccaaatgtac caaaacacgt ttagagagaa cctcgag 287
```

<210> 1218

<211> 327

<212> DNA

<213> Homo sapiens

<400> 1218

```
gaattcgcg cgcgctcgac cgatcttcat gaatgcaata tttatgatgt gaaaaatgac 60
acaggattcc aggaaggcta tccttacccc tatcccata ccctgtactt actggacaaa 120
gccaatattt gaccacaccg ccttcaacca gatcagctgc gggccaagat gatcctgttt 180
gcttttgcca gtgcctctgc tcaggcccggt ctcctctatg ggaatgatgc caaggtcttg 240
gagcagcccg tgggtggtgca gagcgtgggc acggatggac gtgtcttcca tttcttagtg 300
tttcaactga atatcacaga cctcgag 327
```

<210> 1219

<211> 335

<212> DNA

<213> Homo sapiens

<400> 1219

```
gaattcgcg cgcgctcgac ccttgagggtg attcatcttc caggtctctc tcccatcaag 60
```

```

tctctcctcc ctagecgetct gggtccttaa tggcagcagc cgccgctacc aagatccttc 120
tgtgcctccc gcttctgctc ctgctgtccg gctgggtccg ggctgggcca gccgacctc 180
actctctttg ctatgacatc accgtcatcc ctaagttcag acctggacca cggtggtgtg 240
cggttcaagg ccagggtgat gaaaagactt ttcttcacta tgactgtggc aacaagacag 300
tcacacctgt cagtccctg  gagaagaaac tcgag 335

```

<210> 1220
 <211> 228
 <212> DNA
 <213> Homo sapiens

```

<400> 1220
gaattcgcgg ccgcgtcgac cttgatttat aactaaaata tttaaacata cggtggtgtg 60
gactccattt gtactcttac ccagggcctg caaatgttag gagctggcct gaccaagggg 120
ataaagatta cgaaaatgtt cacttattt tattttattt tttttattt ttttgagaca 180
gcgtctcgt ctgtcgccca ggctggaaag cagtggcaca atctcgag 278

```

<210> 1221
 <211> 270
 <212> DNA
 <213> Homo sapiens

```

<400> 1221
gaattcgcgg ccgcgtcgac gtggtttaag acaaaaacac ataaacaagt tcagacaact 60
gattgtatga ttctgggaat tctttgcttt cctttccttc tccctcgcca ccacctcctc 120
tccccaggcc tccctgtcgg gcattgggag gaggttgagg ctacgcatct tgaggaaatgt 180
gtcaagacag ccctccgct ccgcgtgca cggccagccg cctttgtccg ggaggacaga 240
cagaaacgca gcaaggcaca cactctcgag 270

```

<210> 1222
 <211> 207
 <212> DNA
 <213> Homo sapiens

```

<400> 1222
gaattcgcgg ccgcgtcgac catcagcccg ccaagatggc gatgcaagcg gccaaagagg 60
cgaacattcg acttccacct gaagtaaacc ggatattgta tataagaaat ttgccataca 120
aaatcacagc tgaagaaatg tatgatatat ttgggaaata tggacctatt cgtcaaatca 180
gagtgaggaa cacaccaaca actcgag 207

```

<210> 1223
 <211> 345
 <212> DNA
 <213> Homo sapiens

```

<400> 1223
gaattcgcgg ccgcgtcgac ctccctgagc ccaactgggtc atatgcgtgt caccacacgt 60
gaactagtgt ggtggctgac tgcggacacc ctccgtttct gagccctggg cctgtgttct 120
tctcagacac tcccagactg aggggtggtg tgtggcgggt ggcagggttg ctgtggagac 180
tgtgtgatct gagcctggtg ctggcacctg gctgagttt ccgtgggag ctggcgggga 240
cctgtgtctg tctgtctgac tgtgggtggg cgggcggcgc ctgggagtg ctcttgctca 300
ggaattgata ggaaccctaa cgactaggat acccccagac tcgag 345

```

<210> 1224
 <211> 205
 <212> DNA
 <213> Homo sapiens

```

<400> 1224
gaattcgcgg ccgcgtcgac gctgattgag cctcttagat ctgtaggtta atatttttca 60

```

tcaaatttgg aaaatgcttg gccactattt attcaaaaatt tctgccccag tctctctcct 120
 ctgcttcttg gactccagtt atatacgtaa gaacactgaa tgttgtctac aggtcgtgga 180
 ggctttgtac tcccatccac tcgag 205

<210> 1225
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (171)

<220>
 <221> unsure
 <222> (173)

<220>
 <221> unsure
 <222> (175)

<400> 1225
 gaattcgcgg ccgcgtcgac gactcctgtg aggatgcagc actccctggc aggtcagacc 60
 tatgccgtgc cctcatcca gccagacctg cgggtgagagg aggccgtcca gcagatggca 120
 gatgccctgc agtacctgca gaaggtctct ggagacatct tcagcagggtg ntntnccagt 180
 gccaaagtacc ctgctccaga gcgcctgcag gaatatggct ccattcttcac gggcgcccag 240
 gaccctggcc tgcagagacg cccccgccac aggatccaga gcaagcaccg cccctggac 300
 gagcggggccc tgcagggtccc tgagaactac ttctatgtgc cagacctggg ccagggtgcct 360
 gagattgatg ttccatccta cctgcctgac ctgcccggca ttgccaacga cctcatgtac 420
 attgccgacc tgggcccccg cattgcccc tctgcccctg gcaccattcc agaactgccc 480
 accttcacac ctgaggtagc cgagcctctc aagacctaca aaatgggggt cgag 534

<210> 1226
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 1226
 gaattcgcgg ccgcgtcgac ctttaatacag acgtaattac ctgttattaa aatattagga 60
 aaatgaacat aagaaaaacg ttgagatcac tctcactctt gatgttgggc gtgggagggg 120
 tgccagccgt cattccttgg ccggctccct tgetcccgtg gaggaggggt gactccacc 180
 acctccccg cgtgggtctc ttgagttcct cccggtttcc ccattcgaa cctcactgtg 240
 atggaggctg tctctgcaag aagcatttcc tgggttctcc tata 284

<210> 1227
 <211> 236
 <212> DNA
 <213> Homo sapiens

<400> 1227
 gaattcgcgg ccgcgtcgac gtgcgtgctc cttgggttgt tccacctgcc tcctcgatc 60
 ttcaatggca ctctccaaact gccttgccag ggtccacat tcccggtgtt tctcctccag 120
 ccgcagctgg gactgggtgga ttgcctctc cctcttggca atcacctgta ggaactcgat 180
 attctgggca ctggtcgcct ccagtttctc ctccagttca tccaccttcg ctcgag 236

<210> 1228
 <211> 161
 <212> DNA
 <213> Homo sapiens

<400> 1228
 gaattcgcg cgcgctcgac atttttgggtg caagcctggg tcgtcttttc tatgcacatg 60
 gggcagctat tttagaaaca cttggagtgc tttgtatgta gtcccgcatc ccatcttttt 120
 catttgacat cagtggtggg gaatttccac aacatctcga g 161

<210> 1229
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 1229
 gaattcgcg cgcgctcgac gaaaaataat tagtggtata gtcttaagat ttgttttcta 60
 aagttgatac tgtgggttat ttttgtgaac agcctgatgt ttgggacctt ttttctcaa 120
 aataaacaag tccttattaa accaggaatt tggagaaaaa aaaaacctg gttttttatt 180
 tttgtatttt attattgttt acttcaaact ttgttttaca gcgtcccca gctcgag 237

<210> 1230
 <211> 153
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (7)

<220>
 <221> unsure
 <222> (14)

<220>
 <221> unsure
 <222> (104)

<400> 1230
 gaatttcg cgcngtcgac ccaagatccc agtcacaatt atcacccggg atttaggtgc 60
 tgggaagaca acacttctga actatatttt gacagagcaa catngtaaaa gtagtcggg 120
 cattttaaat gaatctgggg aaggcaactc gag 153

<210> 1231
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 1231
 gaattcgcg cgcgctcgac atttgaatac catattattt ctttctattt gggtaatgat 60
 cgggttaata ggatttctta cttacatagt aggtgtggaa aaggtgggtt ttacttattt 120
 attttttttt agacagtctt actctgtcac tcaggttga gtacagtggc gtgacctcag 180
 ctactgcaa cctccacctc cgggttcaa gctcgag 217

<210> 1232
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 1232
 gaattcgcg cgcgctcgac cggaatctcc tctgtgaatt ccacctgect agttctcccc 60
 tttcactctc tctctcttcc cacatcatca aagaggaaaa gctctttgtt caaaaggaag 120
 agaaaacgta aagcatctta ttttcttcta aaagaatttt aaaccatgaa aaagatattt 180
 ttaaagaaat tcacgctcga g 201

<210> 1233
 <211> 160
 <212> DNA
 <213> Homo sapiens

<400> 1233
 gaattcggcc aaagaggcct agagcttagt gtgtaaaatg ttgaggctct tcgttcaggt 60
 catttctctg acagggacaa gactgtcgtt tcagcagctg cagcgaagg ttggtgatct 120
 tcctctcgag gcaggtctag aattcgaggt tctccctata 160

<210> 1234
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 1234
 gaattcggcc aaagaggcct acttttggtc catgtaagt ctaccggtg ctgggggagg 60
 agtcattggtt tatttggaaa tgtcagttgc aatcatggtt ctgtcatttg actgcacagt 120
 atcagaggag cctgttaacc tctctgtgcc ttagtttctt agcccatgaa agagatcatt 180
 gcctgaccca gggactacct caagggttt tgatgaggac aagtgcagct aggaagatgc 240
 aagagccttt agtaccagg ttctcaacac tgactacatg ctggaatgac tgtgaagctt 300
 ttaaaaaatg ttagtgccca cttctctgag 330

<210> 1235
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (15)

<220>
 <221> unsure
 <222> (107)

<400> 1235
 gaattcggcc aaagnggcct agttgaagac gacaccacgg ctttgatgga atatcagata 60
 ttgaaaatgt ctctctgcct gttcaccctt ctgtttctca cactgngta ttttatgcat 120
 ttgtcctctc caatgtatat gcacagagag gcacaggcat gtggactgtt caggcagaaa 180
 cttgtctaca ttaccatctg gactgcaaga gaattattata catttaaacc tgtcttataa 240
 ccactttact gatctgcata accagttaac ccaatatacc aatctgagga cctgggacat 300
 ttcaaacaac aggcttgaaa gcctgcctgc tcaattacct cggctctctgt ggaacatgtc 360
 tgctgctaac aacaacatta aacttcttga caaatctgat actgcttate agtggaatct 420
 taaatatctg gatgtttcta agaacatgct ggaaaagggt gtcttcatta aaaatacact 480
 aagaagtctc gag 493

<210> 1236
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 1236
 gaattcggcc aaagaggcct agataaatct tcctcatggg ggtctctctg tgtattgcag 60
 gatagaataa agagtctgac tctgtttttt atcattgacc accgacaacg ttccagtcct 120
 accacctctt atttccctct tgcctctcat ctgtgcaagc cttactaag aaagcttgaa 180
 ccattctctc cttggctcca gggggaagt caaaccaagc aaacacaggt ccatgggttg 240
 gaattctcac cctagctcac ttctaacca taataaaaac ccaagccaca ttcagactga 300
 cttgggtctc tgcttgcac tctccagaaa gccttattat gtgagtaata aaccttttga 360
 taccctcttg ttctccctat a 381

<210> 1237
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (143)

<220>
 <221> unsure
 <222> (440)

<400> 1237
 gaattcggcc aaagaggcct agggcctgaa ttattttaatt tgatccattt atttaattaa 60
 aaaaaaaagg aaggggaaag aaatcatggc caaaaaaata ttattttaacc cccacccac 120
 ccccaaagct ctaggcattc atntgagcat caccacatc ccactcattg cctgatattc 180
 ggatgggtggc atactctgcc ccaggaaaac tgcctgaagg cacgggggca atgggtgcca 240
 atttttagctc tcagcaggtt agtcaaccag acaaaactggg gggctaaagt ccagaaattc 300
 ttccaggtt ttctgctcat tggctgagca catacaaact gtcataagcc tgtaaaattt 360
 aaggggagtt ggggtggggc gtaagagcaa aaggacagca ggagaagaga aattacgggt 420
 cacccaagtt ttctctgggn tagtggctct ggatatagat ttaaagagag gtcagagtaa 480
 atggactcca gggttcttat caaagaaaac tatccctcaa tgaggagctg agatgtgcca 540
 tgcaagagag ttcttacctg cagggttctcc ctata 575

<210> 1238
 <211> 454
 <212> DNA
 <213> Homo sapiens

<400> 1238
 gaattcggcc ttcattggcct aatcttggtg cactaattaa ggtcttctt tctagaacca 60
 aagaactaaa actttcagca gaatgtcaga accacatctt catttggcag acacacaatg 120
 ctttgtttat tatttgctgt ttgctgaaag tgttcatctg tcagatgtca gaggaggaat 180
 tacaacttca ttttacttat gaagaaaaat ctctgggcaa ttacagttct gactcagaag 240
 atcttttggg agaattgctg tgctgtttga tgcagttgat cactgatatt ccactcttag 300
 atattacata tgaaatatca gtagaagcta tatcaacaat gggtgttttc ctttctgcc 360
 aactcttcca caaagaagtt ttgcgacaga gcatcagcca caagtatttg atgcgaggtc 420
 catgtcttcc atacaccagc aatttctccc tata 454

<210> 1239
 <211> 356
 <212> DNA
 <213> Homo sapiens

<400> 1239
 gaattcggcc aaagaggcct acagacggcg acagtggcgg cggcgccatg gcagggcttg 60
 caggatccct gctgccttgg tgatcccggg ctgacagcca gagagcacag cggctcagct 120
 cctggagagt gagggttgaa gaaagcggag ggcagccgcc tgcgcccgtt ggctccatt 180
 aggtcgggtc ctgcagcggg gcccggcagc cttggtgaag gccctgcccg gcagagatca 240
 tgtattgctt ccagtggctg ctgcccgtcc tctcatccc caagccctc aaccocgcc 300
 tgtgggtcag ccactccatg ttcattgggt tctacctgct caacgttctc cctata 356

<210> 1240
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 1240
 gaattcggcc aaagaggcct acctggcccg tgtgggtggag ggctggaacc ggcattgagc 60

```

tgagcggaca gaggttctca ggggacttca agaggaacac caggcagcag agctcaccag 120
aagcaagcag caggagacag taacccgctt ggaacaaagc ctttctgagg ccatggaggc 180
cctgaatcgt gagcaggaaa gtgccagact gcagcaacgg gaaagagaga cactggagga 240
ggaaaggcaa gctctgactc tgagggttga ggcagaacag cagcgggtgt gtgtcctgca 300
ggaagagcgg gatgcagctc gggctgggca actgagttag catcgagagt tggagactct 360
tcgggctgcc ctagaagaag aacgacaaac gctcagggca ggtctaggtt ctccctata 419

```

```

<210> 1241
<211> 696
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (16)

```

```

<220>
<221> unsure
<222> (18)

```

```

<220>
<221> unsure
<222> (108)

```

```

<220>
<221> unsure
<222> (112)

```

```

<220>
<221> unsure
<222> (133)

```

```

<400> 1241
gaattcggcc aaagantnct aaagaaagct agtatttgta gttatocctat tctaaaaaac 60
tactattcaa ctaagacaac taagaaaaat atattccaat aaaaaatnta anattacatt 120
atgagggtga acntgactat ttaaacaatc tgtactttta ttaattaatt aagaacccac 180
attagtaaaa aaaattttta aatccagatt agtattagga ctctttttaga atttgtctag 240
cagggttttc agtttccacc agaaaacat aaaaatactt atctattggg ttatcctgct 300
agacaaaaat cttagaaagc tctaacatta atctagagtt tttaaaaggg caaattgtag 360
aatctaaaga gcaggatatc gaatatgtct tctattcatg tgaatggcag gtgtgtatgg 420
caaaacttttc tcttctccag gtgttttgct ctgatcaacc cttgttttcc ttatgggtcaa 480
atcagcatct tcagcaggca ctctgcacag aatcattggt ttcagaacat gatgccctgt 540
ttattcaaaa gaagagtctc attcagagaa acactaataa ttttggctaa atagctaata 600
ataattaact taaaaatatt tagttgtgac ttttatttaa acattaaaaa agagttaaag 660
caacatatga atatggtaaa aaatgttctc cctata 696

```

```

<210> 1242
<211> 247
<212> DNA
<213> Homo sapiens

```

```

<400> 1242
gaagctatca atttggatac cagtctggta tctgtcttac ctcccttcac tcacaactga 60
cttggaaaca ataaaggagg gagtgcgaat gcctatcttc cctctcaagt ttctccagac 120
tttactgcag cagcatgtgt cgctcctggc cctgtgtgtc catccctctg cctcctcacc 180
acatctctca ctcatagact cagggtcttc ctctggtcag tactcccatg actccatgca 240
cctcgag 247

```

```

<210> 1243
<211> 349

```

<212> DNA

<213> Homo sapiens

<400> 1243

```

ggaatgtaag ctctatgagg gcaaggactc ttgtcttgtt tactgctgtg ttcttctagc 60
ataaacacac acacccctt agaacaatc ttgatacaca atagaaatc agcaaatgtt 120
tgggtgaatg aaatggcctt aaaatactat tttaaaactt gtttctcttc caggttatat 180
tttcttattt aatgtgtgta aaaatgtggt ggtatgaagt tttttggttt taaaaccttc 240
aatagttagt ttttgtggc acattgtatt cataagagct gttaattcta gccataactt 300
taaataaatg tattggttgc ttgtgtacat gactatctgt aaactcgag 349

```

<210> 1244

<211> 251

<212> DNA

<213> Homo sapiens

<400> 1244

```

ggagcccacc gagaggcgcc tgcaggatga aagctctctg tctctctctc ctccctgtcc 60
tggggctgtt ggtgtctagc aagacctgt gctccatgga agaagccatc aatgagagga 120
tccaggaggt cgccggctcc ctaatattta gggcaataag cagcattggc ctggagtgcc 180
agagcgtcac ctccaggggg gacctggcta cttgcccccg aggcctcgcc gtcaccggct 240
gcaaactcga g 251

```

<210> 1245

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (89)

<400> 1245

```

gcttggccat ggtcgcttcc ttttttccaa tctctgtggc agtttttgcc ctaataaacc 60
tgcaggtttg tactcaggac agttttatng ctgcagtgtg tgaacatgct gtcattttgc 120
caaataagaa cagaaacacc agtttctcag gaggatgcct tgaatctcat gaacgagaat 180
atagacattc tggagacagc gatcaagcag gcagctgagc aggggtgctc aatcattgtg 240
actccagaag atgcacttta tggatggaaa ttaccaggg aaactgtttt ccttatctcg 300
gaggatatcc cagaccctca ggtgaactgg attccgtgtc aagaccccca cagatttggg 360
cacacaccag tacaagcaag actcagctgc ctggccaagg acaactctat ctatgtcttg 420
gcaaatttgg gggacaaaaa gccatgtaat tcccgtagt ccacatgtcc tctaattggc 480
tactttcaat acaataccaa tgtggtgtat aatacagtat tcttcgag 528

```

<210> 1246

<211> 257

<212> DNA

<213> Homo sapiens

<400> 1246

```

gcaagaacat gaaacatctg tggttcgctc ttctcctggt ggcagctccc agatgggtcc 60
tgtcccaggt gcagctgcag gagtccggcc caggactggg gaggccttcg gagacctgt 120
ccctcacctg cgtgtctctt ggtgacccca tcagtcttta ttcttgagc tggatccggc 180
aggccccagg gaagggactg gagtggattg gcactatcta taccactggg aatatcaacc 240
acaatccctc cctcgag 257

```

<210> 1247

<211> 162

<212> DNA

<213> Homo sapiens

<400> 1247

```

gaattcgcgg ccgcgtcgac gtaagcaata tttagttaa aggcatttac aagtcataata 60
acttaaatcat tttaaatgaa tgggtgtgaat acaagcagct tttctttttt ttttaatttta 120
ttctctgttta gtattttctga ttacgttaaca ggaagtctcg ag 162

```

<210> 1248

<211> 234

<212> DNA

<213> Homo sapiens

<400> 1248

```

gaattcgcgg ccgcgtcgac ccagcatttt gttccctttct atttcaccgc tgcctcagtaa 60
caacctacac ttcacttttt gatgccattg tcattcactc attcattcat tatttgcctca 120
ttcattttgt tcaacaatga aaccaatgct caagcagatg gaggtggctg ggtgcagtgg 180
ctcacacctg taatcccaac cctttgggag ggcgaggtgg gcagatcact cgag 234

```

<210> 1249

<211> 156

<212> DNA

<213> Homo sapiens

<400> 1249

```

gaattcgcgg ccgcgtcgac tttccctttt atgtgtaatc ctttgttttc ccggagtcac 60
tacgtcttag tgtcttgttt gctcagtttc ctatgtatct atcacaaatt cagcccagac 120
cctgatagaa gtgtgaatct caacacattc ctcgag 156

```

<210> 1250

<211> 203

<212> DNA

<213> Homo sapiens

<400> 1250

```

gaattcgcgg ccgcgtcgac agaacagtca gtttaccaag gaaggccatt atctttgact 60
tgcaaaagctt ttacagccaa acattgtttg cttacagttc ttttaataca atgaagacct 120
taatggtaag aagagtccca ttactactcc ctttgtacat ggaggtcacc ccaataaaga 180
aaggacgatg tcacgtcttc gag 203

```

<210> 1251

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1251

```

gaattcgcgg ccgcgtcgac gagaactgct gctttgtctt cctgtgttag tgagaccagt 60
tgtgtgttat cagatagtct agactttcaa cagcagttat aagtgcccca gttttctcct 120
tactggttat tccttagagt ctaagggtgt gtattaataa atgaggtggc tcgag 175

```

<210> 1252

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1252

```

gaattcgcgg ccgcgtcgac cctcgattga attctagacc tgccctcatcc cagcctttgt 60
tttattatca tccattttac atcatcatat gcgataaacc ccaaaatgca ttgtcactac 120
ttactcgag 129

```

<210> 1253

<211> 178

<212> DNA

<213> Homo sapiens

<400> 1253

```
gaattcgcgg ccgcgctcgac aaaaaagaga aactacttta ttgatgtttt ttctctctga 60
gccccctgctg gtcttattga atgtgtcacc ttgtattata attgttttta ttgtcactg 120
ttgtcatact gctactcttt taccctcttc ccacatacat acacaaatgc tactcgag 178
```

<210> 1254

<211> 456

<212> DNA

<213> Homo sapiens

<400> 1254

```
gaattcgcgg ccgcgctcgac gcttcgcgga tgggctcgtc actcgggctg taatactgct 60
ccagggggca gttacaggaa ggtaaccatt tacagccaga aaagggttaa tatactcttt 120
tcattgtttt cagaaaatgt ataaaggctc aatttgtaac agcaagggtt tcaaattaag 180
acaattcgta tagagtagca attgctgcac gaagtaaagt cttttttttt tttttttaac 240
atttgcatt taagaaggct gccctgcggt attcataatt cattgtttac cacaagggtg 300
gttcataaat ttaagcttta aaaacgatct gtaagttagt actttggctc ttgggagctt 360
atttcattaa gaaatttttc ttgattgacc tcagggcagc tggggcactc caaggggcta 420
tggcgataaa aagctcaatt ggtaaagaca ctcgag 456
```

<210> 1255

<211> 205

<212> DNA

<213> Homo sapiens

<400> 1255

```
gaattcgcgg ccgcgctcgac gtgcctctaa aattaaatat ttgggatctt ttgattagtt 60
ctggatgcat caaataagca taactaaact attctttttt tgtttgtttt tgagacggag 120
tcttgctcag tcgcccgggc tgaagtgcct cagctttctg agtacctgtg actacatgtg 180
tgcaccacca tgcccagttc tcgag 205
```

<210> 1256

<211> 271

<212> DNA

<213> Homo sapiens

<400> 1256

```
gaattcgcgg ccgcgctcgac ggaatctagt tgccaaagga taaactgagt ttgacttcat 60
tagtgcacaa atgatagggt tgtgtagagt tattatagca ttaatcaatt tgatggattg 120
gaaatatgac agaactgaag cagcatgtaa tattagtgcc tattattctg gaaattatgt 180
cttcacctac attcatgttg cagaggagtc atgttgtaca tcaagaaggc agaacttaa 240
gaaacaaaca acagagggca tcttactcga g 271
```

<210> 1257

<211> 245

<212> DNA

<213> Homo sapiens

<400> 1257

```
gaattcgcgg ccgcgctcgac cttacatttg cttagggttt tcccaagatt cataggcctc 60
ttgtctttat gcatctaata atatcatcta ctgtacaaac ttttaaccatc ttttcaacac 120
tgatgattct cccctctgct tgtcctttca gtactgcttt tctcctgaac tccagaccca 180
tatctcttgc tgcctgcaag cagtttatc tgaatccct tgactccaca actgggtccac 240
tcgag 245
```

<210> 1258

<211> 217

<212> DNA

<213> Homo sapiens

<400> 1258

```
gaattcgcg cgcgctcgac caccatccta ctggagaaag catactttta tgctaagatc 60
ttacttttaag cgttttatgt gaacaaaaga tgtacatata gtaagtatta ctcccgtagt 120
cctcaaattt actataactt ttgtacttag tatatgtttt atatttggaa aacagcacta 180
cgcttagttt tctgtagatt cctgagtgat gctcgag 217
```

<210> 1259

<211> 156

<212> DNA

<213> Homo sapiens

<400> 1259

```
gaattcgcg cgcgctcgac atttctgctc attgtttcca ttctgcaccc cattttttct 60
gtttttttcc tgagattatt aggaatgttt tatcataggg tattattaat tttctcttta 120
gtggcctctt tatcacattg tcacattatc ctcgag 156
```

<210> 1260

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (22)

<220>

<221> unsure

<222> (24)

<400> 1260

```
gaattcgcg cgcgctcgac anchagatgg aggattcggc ctgggcctcg ctgtcttctg 60
cagccgctac tggaacctcc acctcgactc cagcggcccc gacagcaccg aagcagctgg 120
ataaagaaca ggtagaaag gcagtggacg ctctcttgac gcattgcaag tccaggaaaa 180
acaattatgg gttgcttttg aatgagaatg aaagtattatt tttaatgggtg gtattatgga 240
aaattccaag taaagaactg agggtcagat tgaccttgcc tcatagtatt cgatcagatt 300
cagaagatat ctgtttatct acgaaggatg aaccaaatte aactcctgaa aagacagaac 360
agttttatag aaagctttta aacaagcatg gaattaaaac cgtttctcag attatctccc 420
tccaaactcg ag 432
```

<210> 1261

<211> 188

<212> DNA

<213> Homo sapiens

<400> 1261

```
gaattcgcg cgcgctcgac ggtaagtgc tttggaaagt ggaatagagt aagggggatt 60
cagaattgtt gaggatagag gttgcaattt aaagtgaggt atactgggtg gagtatcctt 120
gagagagtga tatttaggaa aaatttaacg gagaagtaac catgttaata actggggcag 180
ttctcgag 188
```

<210> 1262

<211> 161

<212> DNA

<213> Homo sapiens

<400> 1262

```
gaattcgcg cgcgctcgac ttaaagttta agtgatacta aattaagtca ctgttccctt 60
gcttaaaact gttcagtgct ttccatttca ttgagaataa aattgaagct cttttcatgg 120
```

tctctaatat tctacataga cttacccttg tatacctega g

161

<210> 1263

<211> 209

<212> DNA

<213> Homo sapiens

<400> 1263

gaattcgcgg ccgcgtcgac aaataaccct tcaacaagtt aaattgcctc taggatttgc 60
 tttctccaga ttaaattatc ccaaagtctt ttcttttttc tcataaaggc cttttcaaaa 120
 agaaacattg gttactttta aaattttctt ttctagctct ttataaaact ttattctttt 180
 cataaatgta ccacaggata ctctctgag 209

<210> 1264

<211> 323

<212> DNA

<213> Homo sapiens

<400> 1264

gaattcgcgg ccgcgtcgac gagagtggca tgcattgataa aattcaaggc agcagtacac 60
 ctctgggaca gtctgtagca gttccctaata ctacctgtat ccattgagcg agataggagt 120
 gaagcctcct aggtctccag tctgcagcat ctctgtcaca tggaaacctg atgggtgcct 180
 ctgtgagggg ggccaattat gcacagtga cactaaacac agatcatttt agccttecta 240
 attagccact aataaaaaga cactgaagta agtatcctga agatcaaaga gagatttcca 300
 ccattgctca ataactactc gag 323

<210> 1265

<211> 220

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (188)

<400> 1265

gaattcgcgg ccgcgtcgac atttaatat cactcttggc actttacaat cagtoactgc 60
 tccctatgga atttcatagc tcacttttat aacagacatt ggtaaaataa gaatctattg 120
 ttaaagtact catctaaaat attttaatac tcattggagt gatttttgct agcaaagctt 180
 aaaaattnac ataattgctt gtttcacct gatcctcgag 220

<210> 1266

<211> 289

<212> DNA

<213> Homo sapiens

<400> 1266

gaattcgcgg ccgcgtcgac cagtgtataa aacagtctct taattaaact tgcctgaatc 60
 ctcttataac ttggtaattt taggcaatat agtctccct cagtgttcat gagagattgg 120
 ctccaggaca cccctcatat caaaatcctt ggatactcaa atcccttata taaaatagtg 180
 tattatttgc atataactta tgtacctctt cctgtatact ttaaactcgc tetagattac 240
 ttataatatt aatggtaaaa ccacaattac ttctgcacca actctcgag 289

<210> 1267

<211> 243

<212> DNA

<213> Homo sapiens

<400> 1267

gaattcgcgg ccgcgtcgac tgaatataaa tttttttata gcatgttaat tgcttatata 60

```

aaaaagttaa taaaagatag gttttttttt aagtatatatt ttctaaaaga ggaagattgg 120
gtttttttgt ttgtttttgt ttattttttt tttttttttg agacaggggc tggtctgtgc 180
atccaggctg gagtgcagtg gcattatctc agctccctgc aacctccacc tcccagctc 240
gag 243

```

```

<210> 1268
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<400> 1268
gaattcgagg ccgcgtcgac gggctccaga aaaccagggg gactcaaaac agaatgaaac 60
tgcaaacatt cgtttttatt gctattttta aaaatttggg aatatggcgg ggtgcgggtg 120
ctcagcctg taattccagc actttccctg ag 152

```

```

<210> 1269
<211> 192
<212> DNA
<213> Homo sapiens

```

```

<400> 1269
gaattcgagg ccgcgtcgac ggttttatga acattttatt agccgttgta ttgtgggttg 60
ggattgtata ccattgtttt tatttgtatt ttttttttac ttcttttaga gacaggggtc 120
cactctgtca cccagctctg agtgcagtg tgtaatcata gttcagtgca gtctcgaact 180
cctgggctcg ag 192

```

```

<210> 1270
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1270
gaattcgagg ccgcgtcgac attaagcatg acatatcctt catatgatca ctcatcttga 60
gttaattaga aaatacctga gttcacgtgc taaagtcatt tcactgtaat aaactgacta 120
tggtttctta agaacatgac actaaaaaaa aagtgggttt tttccaccgt tgcctgattat 180
tagacagtag gaaatagctg ttttcttttag ttttacaaga tgtgacagct ttagtggttag 240
atgtagggaa acatttcaac agccatagta ctatttgttt taccactgat tgcactattt 300
tggtttttta acagttgcaa agcttttttaa tggcataaaa gtataattga aatctgttgt 360
atttatttac aaacatgtct cgag 384

```

```

<210> 1271
<211> 173
<212> DNA
<213> Homo sapiens

```

```

<400> 1271
gaattcgagg ccgcgtcgac ggtggctgcc cctgtcccag ccgcgaacac cccctgctcg 60
gcgtccctcc gcccggtgac tcttgggttg ttgccccgag aggcgcacgg ccgcctggtt 120
cgcgggggag cgaacgggag gccggggaat gcgaaccggc gcaaactctc gag 173

```

```

<210> 1272
<211> 228
<212> DNA
<213> Homo sapiens

```

```

<400> 1272
gaattcgagg ccgcgtcgac caacctcttg ctgtccatgt attttcttgt gctgggaatc 60
ctggccctgt cccacacat cagccccctc atgaataagt tttttccagc cagctttcca 120
aatcgacagt accagctgct cttcacacag ggttctgggg aaaacaagga agagatcctc 180
aattatgaat ttgacaccaa ggacctggtg tgcttggggc cactcgag 228

```

<210> 1273
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (24)

<400> 1273
 gaattcgcg cgcgctcgac cgcncattta tgatttggaa caactagggt ttatataaga 60
 tacaaaaatt aaacaaagga tttgtgcatt gcaaaaagct acaaggaggt ccaaagcagg 120
 aagttatgca aaacatagca tttgccctg actgggagtg cagggaagat gtggaagagc 180
 agagagggaag agaaggaggc tagggttagg tacctactca agaaggttga aggggaattgt 240
 ggaaggagag gggcgggtgt cctgctcctg ctgtcaaact ctagaacctt gtggggctgc 300
 tgtgatccca cagagaacgt gaagagggt cccagttccc tatggccagt gccaaagctgc 360
 aagtacatta gggagtatct ccaaggcttg tgggtgggga antcag 407

<210> 1274
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 1274
 gaattcgcg cgcgctcgac gagagatttt tacttatata atagtccctag agtttgcagc 60
 tggtaaaacc agaggctaca tccagtatta ctgctaagag acattcttca tccaccaatg 120
 ttgtacatgt atgaaaatgg tgtactgtat actttaacat gctctctcga g 171

<210> 1275
 <211> 274
 <212> DNA
 <213> Homo sapiens

<400> 1275
 gaattcgcg cgcgctcgac cttgaattgc ctttagagca ttgtgtccgt ggtttcaatt 60
 gtatcacaga atgttacaca gactgaagtt aagtggttac tttttgtcag gggttatctt 120
 atttttctcc attcagttta acatgtgtac tgcaaaagac agtatttttg gaaatgaagg 180
 catagtcttt catttaaaaca tgcacacagag ggatttcaat aatgaaagca ttcaaatcat 240
 gtgcctagtt cttgtttcta gcagcccaat cgag 274

<210> 1276
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 1276
 gaattcgcg cgcgctcgac cctgattcca aagggaatatt tctgcgacac ttacaatgaa 60
 attccaacct ggcaccatct ttttcaactgc agaatgcatg aagggtggtg catcatgtca 120
 tttcgacatg catttaaatg taatgaaagg cacacagctc gag 163

<210> 1277
 <211> 254
 <212> DNA
 <213> Homo sapiens

<400> 1277
 gaattcgcg cgcgctcgac tcttgagata atttaagtta aatctgtatg gtgtgttttt 60
 ttttaatatg tctgttttat cttttgattg gctgtgttta cagtgaacat ttctctact 120
 ggataactat gtgtaaatg ccattagggg tttataagcc tttacaacca gttttaggcc 180
 aggaaatgtc cacagagttt gaagttttct ccttagggaa gttgttatgt tgctatagta 240

agggagtact cgag

254

<210> 1278

<211> 181

<212> DNA

<213> Homo sapiens

<400> 1278

gaattcgcg cgcgctcgac cgattgaatt ctagacctgc ctcgagtgat ctgcctgcgt 60
tggcctccca aagtgcgtg attacagacg tgagccactg tgtctgtctt gtctctgata 120
tttatatgcc attatgtggc ctctactgcc ttaggattct aatgttccca ctaagctcga 180
g 181

<210> 1279

<211> 179

<212> DNA

<213> Homo sapiens

<400> 1279

gaattcgcg cgcgctcgac ccattccctg tatttctagc tgtttttttt gtttttttct 60
aggtgttttt tgttttttta agcttctaag tgaatcaact aatataatc ttaagagaat 120
tagctgtaaa gatattcata ccattgctct tcagacacat gcagctagtg ctacttgctc 179

<210> 1280

<211> 239

<212> DNA

<213> Homo sapiens

<400> 1280

gaattcgcg cgcgctcgac aaacaaacaa aaaaagcatt tcttgagag aagaagcatg 60
tacagatgag caagtggaga ctaaagatgt ttgagtggat gtagtagacag gtgaacaggc 120
gggcatttgt ttttattatt gttacttatt tatttttaaa ttttcttttt ggatgctccc 180
tcacccccct cctccttccc caggcaggta tttcgataga taaaggatgg gtgctcgag 239

<210> 1281

<211> 213

<212> DNA

<213> Homo sapiens

<400> 1281

gaattcgcg cgcgctcgac gatttttagaa gctatagaca ttgtttaaga taactaagaa 60
tacttggtta agaagtataa tttgctaact attaaggact ttcttttttt aatgttgtag 120
actattcttc ctactctttt ttgggttttg ttttgttttg tagagactgt ctactatgt 180
tgcccaagct ggtctcaaac cctaatctc gag 213

<210> 1282

<211> 148

<212> DNA

<213> Homo sapiens

<400> 1282

gaattcgcg cgcgctcgac atttggactt gtacctgata agcaagctca ggaattaact 60
tggtagccac cacaaaacct aaagaaagt aggccttagaa gtgcaactta atcacaaatt 120
agattttaac acacacgcac ttctcgag 148

<210> 1283

<211> 186

<212> DNA

<213> Homo sapiens

<400> 1283

gaattcgcgg ccgcgtcgac gggaatcagg gaaaggctgc ctcttttgta tctcaactgg 60
 tattgattat tgctatcaac tatttgggga gaaaaaatca aaatgaagcc ctgtcaaatt 120
 ttagaagtac tatcttttggc ctttcaaaca ctttgtgatg acaccttaag aaaaacaaag 180
 ctcgag 186

<210> 1284

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1284

gaattcgcgg ccgcgttgac tgcagttgtc gccaaacttg ggtattcatg gaattttctag 60
 taaatgaaat acctatactt tgatactgaa gactgccaaa tacataggaa ttttctttct 120
 taaaaaacag taatgaagac tatatctcct ttcccagcac tgaatgtttt actagcactg 180
 ggtgtctcacc atgcaactga agaaaatgtg aaatctctcg ag 222

<210> 1285

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1285

gaattcgcgg ccgcgtcgac ggtgtacgga tattttttctc aaattatcta ttttgttgat 60
 gttttttgta cccattctgt tgtgtttgtc tttattaatc tataatatca tctgtttcaa 120
 tatggaacac cccacagggt cagggtctgag gtgctccctg ttggcagctc ctaaagagaa 180
 gcagctcgag 190

<210> 1286

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1286

gaattcgcgg ccgcgtcgac attgtacatg cttctggact tgccttttcc cttagtgtac 60
 cttggggaat ttgccttgat atatggagag atgcagctgc tttgtttcat gttttgcttt 120
 tttttttgga cagttggaca tgcgtgtccc aagtgtgttt atttagccga tctcgag 177

<210> 1287

<211> 293

<212> DNA

<213> Homo sapiens

<400> 1287

gaattcgcgg ccgcgtcgac caaaaaaat gctagagtaa gaaatcagag gaatgggaaa 60
 atgagggtgt gattaaatga aatacgcata aattactata caaatgcct gcagtgaag 120
 ccggttgat ttgttgagat agattgcaaa ttttacttta gtcttcccag aagtcacggt 180
 aaagaaggtt acagaagtat tgtgtattca aaatccaaag tgcctttggg ataaaagtaa 240
 ataggtcatt caggagaagg acatgttttc ttaattctaa aagctgactc gag 293

<210> 1288

<211> 277

<212> DNA

<213> Homo sapiens

<400> 1288

gaattcgcgg ccgcgtcgac ctaaatttaa gtatgcagtt ctctttttgc tgggtttatt 60
 cgtgtcgtgt catcgtgagt aagaagcctg ccttgcctgt cctgggaaga tgccatagtt 120
 ttcgttactg gatgttttga gtagatactg gtctgtgatt ggtggaatgg agaacacacg 180
 tgttgggtgc tctgggtagc actgggttgc attagtttat gtttccatgc cagagtttgt 240

gtgggcgggc gcattgtcac cacagagtgc actcgag

277

<210> 1289

<211> 266

<212> DNA

<213> Homo sapiens

<400> 1289

gaattcgagg ccgcgtcgac aggagctatg cctccaaggt ggctccttac acccatataa 60
atgtgggatg gaattctgaga ccttagaagg gcccttcggg gtaaacctctg aaggtagtg 120
ccagaaggag gtgggtcaact tcttaagtgg cctgggggtc agatcatttt cacctagaaa 180
gacaccagac tatagaaatc taggcaatga caaactgcta ccattttcct catatgattt 240
tttttcaggc agcttgggga ctcgag 266

<210> 1290

<211> 139

<212> DNA

<213> Homo sapiens

<400> 1290

gaattcgagg ccgcgtcgac caagaattta ttttttttat tttttaaaat taaaaataat 60
ttatatcttc tctgttgcac gaggattctc atctgtgctt ataattggtta gagattttat 120
ttgtgtggct atcctcgag 139

<210> 1291

<211> 154

<212> DNA

<213> Homo sapiens

<400> 1291

gaattcgagg ccgcgtcgac gagagagtgt actttatcct cacaagtcta ttagtgcata 60
ttaaatacata atgaagcaa tcttgggcca ggtgcagtgg ctcattgctg taatcacagc 120
actttgggaa gcggaggcag gcagatcact cgag 154

<210> 1292

<211> 269

<212> DNA

<213> Homo sapiens

<400> 1292

gaattcgagg ccgcgtcgac gtaaatgctt attagttaac caggcagggt taaccacgtt 60
attatagaaa ctctaagagg ttccacatgt gttttttttt tgttttggtt tgtttggttg 120
ttttgagatg gagtctcgtc ctgtcaccca ggtgggagtg caatggcgtc gtcttggctc 180
cctgcgacct ctgcctcccg ggttcaagca gttatcctgc ctcaacctcc caagtagctg 240
ggattacagg caccgcgcaa ccactcgag 269

<210> 1293

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1293

gaattcgagg ccgcgtcgac gctaattggc gtttgcattt gtgtcttcaa acagatcctg 60
gttacagcca ttttgtgtga ttcaacttcg ggtttaagta atgcaggatt ctgcaaacaa 120
ggtgtcgcgc tccaaatgta ctgtcctggc atagagagca ctgcatttgt ttccactggt 180
gtagagaaaa ctaggagaaa gctcgag 207

<210> 1294

<211> 225

<212> DNA

<213> Homo sapiens

<400> 1294

```
gaattcgcg cgcgctcgac atttcagtgg tatttttatt ttctactccc tttcccttta 60
gcttgtttca gatttaaatt gtccctcacc ttctagtatt ttaagggtcaa aggttaggtt 120
attgatttga catccttctt gtttgtaaat gtaaatattt acagttataa attttatctt 180
tagatgcacc aaaacaaaat gtattggcaa agagtcatac tcgag 225
```

<210> 1295

<211> 197

<212> DNA

<213> Homo sapiens

<400> 1295

```
gaattcgcg cgcgctcgac taacaatatt gattcttcca atccatgaac atgggatata 60
tttccatttt ttgtgtgtct tcttcattta ttttatttat ttattttttt gagatgggtg 120
ctagctctgt ccccatgtct ggagttcaat ggcattgatc cagctcactg caacctctgc 180
ctcctggggt gctcgag 197
```

<210> 1296

<211> 171

<212> DNA

<213> Homo sapiens

<400> 1296

```
gaattcgcg cgcgctcgac ctgacttttc tacatatgct ttatcaacct cttaattaaa 60
ccatcattgt ctattttgag agataactgc gctgcttccc attgtgtgtt ttaaatgtta 120
ttgttcagtt tgagtcaaat aaaaggatat ttaatctatg gtggcctcga g 171
```

<210> 1297

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1297

```
gaattcgcg cgcgctcgac cgagttgttg aattgtcaag gatgtcacac agtggacaga 60
aagtccaagc gagggagggt ctgacccagt gctgatggag attagtgggt ggtgtctggt 120
atgaggatct actgactga caagggtgtc ctacagagtg gagtgtgtc atatggcctg 180
ggacgggaga ggccaagca cagcaaggac atcgcccgat tcacctttga cgtgtacaag 240
caaaaccctc gag 253
```

<210> 1298

<211> 170

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (32)

<400> 1298

```
gaattcgcg cgcgctcgac ctgcttttta anacaacaaa caagaacaac aacacaaaac 60
tggtaatgat ttggagtaat catgcgggca tattgagtct gggtagtggt tcgctgggtg 120
tagagtgggt gagacttctt gggaggactt tttccgctc cactctcgag 170
```

<210> 1299

<211> 185

<212> DNA

<213> Homo sapiens

<400> 1299

gaattcgcgg ccgcgtcgac ccgggattta ggggcaggat aaagattagt aatagctagt 60
 aaggaacaga attcaaaatg tggctctctaa ttacaaaatc tatagtttta acttcattta 120
 ctgctactag tgtccctgat ggtataactt tcttaaatct ttcagtaggt ccagggtgatc 180
 tcgag 185

<210> 1300

<211> 245

<212> DNA

<213> Homo sapiens

<400> 1300

gaattcgcgg ccgcgtcgac acttagtata actttgcact catttaaatt cagtgaatta 60
 gggttttaagt ttctctagaa ggaaaaaagc caactttttg agcctgcctt tgtttctctg 120
 cgtgtaagtg tatgtgtata taagaaatga aaattcattt tctcaccagt ttactagttt 180
 atgtaagttg gttccctttta atccatgttt ttgagaatgg acttgggaaa gcaatgggac 240
 tcgag 245

<210> 1301

<211> 358

<212> DNA

<213> Homo sapiens

<400> 1301

gaattcgcgg ccgcgtcgac agtccctggg gtgtggagcc gctagggttt gcacccatga 60
 aacagaaaag ccacaccctc caaggtgtgg ctttcatttt gggactgctg caggaggggc 120
 agaggcattg ctgagactgc ctgggcaacgg ctgatgcccc aggtaggacc ttttccattt 180
 caaagtgggtg ttctaagtct gcgtccaaca ctgtgtagga aaaagggttg tgcaaaaata 240
 ttctctggtea tccacccatt aaaatagtta gatgaggcta ttgccttgat gacagctgtc 300
 cacactcctc atgaaattaa cccgtatgcc ggggcatttc caaatgtctg aactcgag 358

<210> 1302

<211> 150

<212> DNA

<213> Homo sapiens

<400> 1302

gaattcgcgg ccgcgtcgac gaatttctgt attaacaaaa tattttaata aatcttaaga 60
 gaaaatcttt taaaaaaatt ttagggcaca atgaggcacc acttctctg ggcaaatgca 120
 tttgtctctc atttagtgga cattctcgag 150

<210> 1303

<211> 200

<212> DNA

<213> Homo sapiens

<400> 1303

gaattcgcgg ccgcgtcgac agcatgctta ttcttacttc taaaaatata gtcatgtcat 60
 ggctgctttt ctggctactg ctacccttgt gtcaacttgt atcagcagta ttccaaggaa 120
 gcaaatggca cgttgaaatg aggataatc aaggaaggta tatttacaaa gatattagta 180
 ataaagatgc tggactcgag 200

<210> 1304

<211> 188

<212> DNA

<213> Homo sapiens

<400> 1304

gaattcgcgg ccgcgtcgac ctggtttgtt atagatgcat ggagtggcta ggaaagctgt 60
 tagaggtagg atatctagta agagccgtgg tgcctagccc tggctgcaca ttggaactgt 120

ctggagaaca tttaatggcc cgatgccag gttcacccca gatcaattat atcagcagct 180
cactcgag 188

<210> 1305
<211> 203
<212> DNA
<213> Homo sapiens

<400> 1305
gaattcgccg cgcgctcgac cgcaggattg ggactgatac agaggccgcc acggagcccg 60
ccggagccac cgttcctgct gctgccgccg ctgcccgaa cggaaaccgtc gggccgcagc 120
cgccggcaat gccgcgaagg aagaggaatg caggcagtag ttcagatgga accgaagatt 180
ccgatttttc tacagatctc gag 203

<210> 1306
<211> 160
<212> DNA
<213> Homo sapiens

<400> 1306
gaattcgccg cgcgctcgac caacattgaa gaggatcact gcttttcata agtaagttga 60
atattgaagt tctgttttc ttaaattctgt agaaataaac ttgcatgtt tgtgggttat 120
gttaattttc aagctaattt gttgtgtgtg tcagctcgag 160

<210> 1307
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (18)

<220>
<221> unsure
<222> (23)..(24)

<220>
<221> unsure
<222> (277)

<400> 1307
gaattcgccg cggggtcnag ccnnttcctc taagcgttta cttacatggt taagatattc 60
tggaacctct ctttctcgca ttaacctttg gccttcggca gcatataagc aattagtctc 120
ttccaaaaat ttcagttcaa atgaatcttt atacacctgc aggtcagaca gcatgccag 180
gaggctccgc aacaggctcc ggtccacggc ctgcgcgctc ctctcgcgct cgatcagcag 240
taggattcca tcaatgggtt tactctgaac cattttntca ctaataatat gggttctaaa 300
cagttctaat cccatatccc agatggaggg cagcgtggag ttctgcagca cataggtgcg 360
gtccaagaac aggaagatgc ttctgatcat gatcatttgt ctgcagtggc cctgccagca 420
cgtgttaate ttctttaaaa ataaaacact atctagttag tcttctctaa acggaaggat 480
ctgtgcctgg acgtggctct cacaggcctg acgcagttgc ttgtagagca ttggggagac 540
tttgtgagaa cagagatttt ccacagcctg gttagagctcc tcgag 585

<210> 1308
<211> 219
<212> DNA
<213> Homo sapiens

<400> 1308
gaattcgccg cgcgctcgac ctttaaattg tttttctacc ctcttctct cttctctggaa 60

ttccagttac acgttttttag atattttgat attgtcctaa aaataacatt gcctctgtac 120
 atcttttttc agctgttttt ctctttattg tttagttttg ccatttgta ttataattta 180
 gttcaggaca caaagatgag ggttaggaga agcctcgag 219

<210> 1309

<211> 176

<212> DNA

<213> Homo sapiens

<400> 1309

gaattcgcg cgcgctcgac cagcttagtg tagacatggc cttgggggct gagcgcagca 60
 gccaggctgc cagggctggg ggcgggtagg aggcacggta gttggtgggt gggaaagagg 120
 cctgggtggg ggcggtcagt tagcctggct gggtagggt gatgagggtga ctcgag 176

<210> 1310

<211> 182

<212> DNA

<213> Homo sapiens

<400> 1310

gaattcgcg cgcgctcgac gccaggaata tgttctgtaa aaacgtgttt tatatgattg 60
 tgcagggtgt cttactgtcc ccagaactac ctgaatcaga ctgctgcccc gcagggtggca 120
 ctggaaataa cctcctgtgg aatgtttctc atgccccctc cttatggcag gacacactcg 180
 ag 182

<210> 1311

<211> 171

<212> DNA

<213> Homo sapiens

<400> 1311

gaattcgcg cgcgctcgac tgaagagaga gcaccacatg gacatccgag atgtaaccat 60
 ctaggcagtg agggcagcat gttagcagag aggtgaagga tgaagacaga gcaccaaagt 120
 ggcacccgag atgtaaccat ctaggcagtg agggcagcat gttgcctcga g 171

<210> 1312

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1312

gaattcgcg cgcgctcgac ggagaatcac ttgaacctgg gagatagga ctgcagtga 60
 ccaagattgc tccactgcac tccagcctga gagacagaga ctccatctca aaaaaataaa 120
 gaaaccgcgc ccagcccaga cccctcattc ttaaagaata gtacttcctc tctaagtgt 180
 aagatcctga tgaaactgtt aaaattcagg cgagcgctcg ag 222

<210> 1313

<211> 216

<212> DNA

<213> Homo sapiens

<400> 1313

gaattcgcg cgcgctcgac gtaacaacca gttgagaaaa agggagggaac tgaagataac 60
 tcaggttttg agctagggta gaggaataat ttggaaggag aagataacaa actgcatttt 120
 agacccactg agatggaagc ctccagaagga catcattgtg aaaatatcca gcaagcccat 180
 ggaaatgtgg agaggtcaga accaaataaa ctcgag 216

<210> 1314

<211> 251

<212> DNA

<213> Homo sapiens

<400> 1314

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gaattcgcgg ccgcgtcgac acagctctct cctcatttta atccaagggt agagtgttaa 60
tcctgagaac agccaggatt cacagttgaa aaataattta aaaagctctt ctgggggtat 120
agatttttag ttcaaaaaaa catatcaata ttcagagtta tacagaaact gacagagggtg 180
ttatttttaa aagattcaga agaatggatg actcactctc ttcaactaga tttcatcacg 240
ggatgctcga g                                     251
```

<210> 1315

<211> 201

<212> DNA

<213> Homo sapiens

<400> 1315

```
gaattcgcgg ccgcgtcgac attagagaat aaaagggat gacttaaaat ttttccatgt 60
atgtattgat ttatagatta tttttctgta cggtttgtta aatacatctt tttttctttt 120
tttgagacag tcttactctg gcattctaggc tggagtgtca tggcgcaatc tcagctcact 180
gtaacctccg ccacctcga g                                     201
```

<210> 1316

<211> 328

<212> DNA

<213> Homo sapiens

<400> 1316

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gaattcgcgg ccgcgtcgac acctgacgtg gcctctagag aatgttgccc agggcagtag 60
agcctccctg gtggcactgc tgtcagcacc acctgcaca gcccggcaga acctgcctt 120
gccctggcca tctctgtctc tgagattcac cacggagggt agcttggtta taggtgagct 180
gttaagagta ggggtttgtg ttcttgggaag ttagggctta ggagccacac atttccttct 240
tgcccagctc ttgcttgctt agaccatttt ctttatcttt ttcaatgaac acttgctcaa 300
gtgtgtctct tcttcccatc ctctcgag                                     328
```

<210> 1317

<211> 254

<212> DNA

<213> Homo sapiens

<400> 1317

```
gaattcgcgg ccgcgtcgac caaaaacatt aaaaaacttt cctaagtcac ttagagtgat 60
tttaaaactt ttttttaact gtatcacact gcttctcgat agttcaagtt aattatctta 120
tttgatatct tagacttggg acagtgtctg tgttcccagg tggctgaata ctaaggctaa 180
atattagctg aatgccttcc atgtgtctaa cctgtctatt gtctagaaaa ctaaaatcta 240
ggctgggact cgag                                     254
```

<210> 1318

<211> 203

<212> DNA

<213> Homo sapiens

<400> 1318

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gaattcgcgg ccgcgtcgac tccgtattta gtttcttttt ctctgtgttc aatctctgga 60
tttgacctc tagctccctt tcagctttct gtttctcatt gtttgctttc ttttcttctt 120
ccagctgatg ttccacttgt ttcttctgtt gtttcaaaga ttgatgggtg tcattcagtc 180
gactgatttt tatggacctc gag                                     203
```

<210> 1319

<211> 271

<212> DNA

<213> Homo sapiens

<400> 1319
gaattcgcgg ccgcgtcgac ccacttttta gtaggcaaag acactttctac cacaacaatc 60
aggtaatttc ctcatatttg tgaatatgga agtgattgaa tgtttctatc ttatttttga 120
ttcctataat aacttcataa gtctctgcac acaaataaggg tcagattaag cctcgacttc 180
tccaaagagt tctcaaaaaca cgaagaacaa acttttaagt ctcttgatat tcttcatgta 240
ccatttatat ttagttgctg gtcaactcga g 271

<210> 1320
<211> 576
<212> DNA
<213> Homo sapiens

<400> 1320
gaattcggcc aaagaggcct agaagctgat caagttttctg gccttcgaga gaatacatca 60
gcttttcccc tcccgggtcc aaccttcacc gggcagtgctc gggacacatc agctggcttc 120
tgaggggcac cacatagaag tgcaaagaaa ggaggtacag gcccgagctg tgttctaccc 180
cctcttaggg ttgggaggag ctgtgaacat gtgtatcga accctctaca tcgggacagg 240
agctgacatg gatgtgtgcc ttacaaacta tggtcactgt aactacgtgt ccgggaaaca 300
tgcttcgata ttctacgatg agaataccaa acattatgag ctgttaaact acagttagca 360
tgggacaacg gtggacaatg tgctgtattc atgtgacttc tcggagaaga ccccgccaac 420
cccccaagc agtattgttg ccaaagtgcg gagtgtcatc aggcgcgcgc ggcaccagaa 480
acaggacgaa gagccaagtg aggaggcagc catgatgagt tcccaggccc aggggcccga 540
gcgagagacc tgcaattgca aagccagcag ctcgag 576

<210> 1321
<211> 115
<212> DNA
<213> Homo sapiens

<400> 1321
gaattcgcgg ccgcgtcgac ggctcctcac taatcaataa cacaagtgtc aagttctaag 60
tatttaaaaa aacaaaagac tgcaggtgac tctttctctc aggtcccatc tcgag 115

<210> 1322
<211> 557
<212> DNA
<213> Homo sapiens

<400> 1322
gaattcggcc aaagaggcct agacagaaga taaatgaaag tataaaaaaa cctttaagta 60
gtaaagaggg cactcaaaaag tgtatttctg ggtatagtgc tgtcttccca gtagggtaga 120
tgtcaggctc atctgttaat aaaagtcaac accaaaatga tggtaggaag ttgttggttt 180
tgggggaaaag ttcaaaaattg gggtgttagg acatgtaaat catgaagata cgatttttta 240
aaatagccaa atagtaatat aggtatgcta tggtagagat cttgattgtg catccattaa 300
tgtatagtgt gcttaaaatg tctataggct aaggaattat tttagctttg atatgtggac 360
aggaaggagc ctctgaaagt aacttgaaga aattgatatt ttcagttttg tagcatcata 420
tagtctaatt ggaatggaca gagatgtgag gcagagatat caggaagcca ttacaggagg 480
ccgggtgttg tgtggtaaat agtgactgcg gcagagagaa cgaaattata ttgtaaagt 540
agagacagct actcgag 557

<210> 1323
<211> 376
<212> DNA
<213> Homo sapiens

<400> 1323
gaattcgcgg ccgcgtcgac caagcagcag cgagtaccag tcccttttct gtcttctgta 60
caagctcacc ctctgtcacc tgcctaacat catgaaggct tccaccactg ccttctgtgt 120
tcttctctgt accatgacac tctgcaacca agtcttctca gcgccatag gagctgacac 180
cccgactgcc tgctgtctct cctacagccg gaagattcca cgccaattca tegtgtgacta 240

```

ttttgaaacc agcagccttt gctcccagcc aggtgtcatt ttcttgacta agagaaaccg 300
gcagatctgc gctgactcca aagagacctg ggtccaagaa tacatcactg acctggaact 360
gaatgccgta ctcgag                                     376

```

```

<210> 1324
<211> 372
<212> DNA
<213> Homo sapiens

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<400> 1324
gaattcgcgg ccgcgtcgac caaagtgatg agcatggttt cctattcctt tctggagatc 60
gtgtgtgtct acggtactc gctgttcate tatatcccca cagcagtcct gtggatcatt 120
ccccagaggg ttgttcgttg ggtccttgct atgattgccc tgggcgtctc aggcctctgtg 180
ttggtaatga cattttggcc agctgttctg gaggataacc ggcggtgtcg cttggccacc 240
attgtgacaa tcgtgttctt tcatgtgctg ctctctgtgg gctgcttggc ttacttcttt 300
gatgctccag agatggacca cctcccagca gctataacca ctcccaacca gacagtaaca 360
gcggcactcg ag                                     372

```

```

<210> 1325
<211> 234
<212> DNA
<213> Homo sapiens

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<400> 1325
gaattcgcgg ctgcgtcgac aggggaaggcg ctatagagag aaattaaatt tcacaaaagt 60
ataaaagcaa agactggcta aaatctgtaa ctctcatgagt aagaataaca acaataaccc 120
attctataat taactctccc acagtgaaca atctgctaca cattccttga tgaggaatga 180
acctagctta ccacagtgga aacctgccac aactgcaagg ccgggggttct cgag      234

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<210> 1326
<211> 537
<212> DNA
<213> Homo sapiens

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<400> 1326
gaattcggcc aaagaggcct aggatctgta atgttgatta gtcttttagcc ataaccacta 60
cacttttaga aagacagaaa aatgtaagaa tttgttttta ccataatgag tcttaagtag 120
gttcattgac tacattgggg cctgggatta tttttttaat tttaagtttg catgagatag 180
cctaataaat ggaggtgggg ccaggcatgg tggctcacac gtgtaatccc aacactttgg 240
gaggctgagg aggaaggata gcttgaggcc aggagtgtga gactagactg ggcaacatag 300
caagaccccc tctctacaaa gcacaacgaa aaacaacaaa tggagtgtg ctatgttgta 360
ttgctttgca caaaattagg aacagggtgt tgacaattga atttgttttc tgtgaattct 420
aacctctaaa ggcattgctta gaggtcaagg accttctgt gtagtgggtg caaaagcaat 480
ctccacagga cagcactgct tccatgcttc atacatcagg aaatgaggcc actcgag   537

```

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<210> 1327
<211> 206
<212> DNA
<213> Homo sapiens

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<400> 1327
gaattcgcgg ccgcgtcgac caaccatttt gtcttgcatc tcttctttcc tgtagagcct 60
ttgaagcatt gtattttggg aaaattcttc tgtaataact ataactttta taaatggtta 120
agttatttag aattatctcc agtgcttact tctcccttct tctgtataaa tctgctactt 180
caattaagtt ctctccatc ctcgag                                     206

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```

<210> 1328
<211> 178
<212> DNA
<213> Homo sapiens

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<400> 1328
 gaattcgagg ccgcgtcgac atttgatacc ttgatagcc ttactaag tattccagcc 60
 gccacatggg gtcacccatt gacctggac cactgccttc accacttcac ctcatcagaa 120
 tcagtgcggg atgttggtg tgacaactgt acaaagattg aagccaagag aactcgag 178

<210> 1329
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 1329
 gaattcgagg ccgcgtcgac catgtgggtg gctgtattac tcatgtgtca gatgtaccag 60
 atatcatgtt taggtattac tacaaatgaa agaatgaatg ccaggagata caagcacttt 120
 aaagtcacaa caacgtctat tgaaagccca ttcgtcctcg ag 162

<210> 1330
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 1330
 gaattcgagg ccgcgtcgac gtctctcaaa aaaaaaaaaa aaagatcgtg tgtcacctgc 60
 acacaacatt cacaaactaa agccaaattg tattttttaa atttccttc tcccttcctg 120
 ctccctgaga ctgttttgat tgacatcttt tgtgtttcta tattttcga ggcagtattt 180
 tctttgtatg ttaatcatag ttatagtaaa gtcagcactc gag 223

<210> 1331
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 1331
 gaattcgagg ccgcgtcgac gttctctaca acagaagcca agaaggaagc cgtctatctt 60
 gtggcgatca tgtataagct ggctcctgc tgtttgcttt tcataggatt cttaaatcct 120
 ctcttatctc ttctctctct tgactccagg gaaatctctt tccaactctc agcacttcac 180
 gaagacggcg gcttaactcc ggaggagcta gaaagagctt cccttctact cgag 234

<210> 1332
 <211> 137
 <212> DNA
 <213> Homo sapiens

<400> 1332
 gaattcgagg ccgcgtcgac ttgtgcatac tgtaagcaaa ttgcttagct tctctagaca 60
 tcaactgtgt tggagatttg cctagcacat ataactaaat ggtgctcacc tgcactgcac 120
 tcacacactt actcgag 137

<210> 1333
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1333
 gaattcgagg ccgcgtcgac cgagtttctt tctttcagta agacatacca aagtttgtgt 60
 aaatcttcac tacttttggt ccttagttgc tgacaggctc atgctgctcc agattttact 120
 tttcttgcc ccagttttt tgggtcatca aaaaattctc gttgacaga cctgcctcga 180
 g 181

<210> 1334
 <211> 120

<212> DNA
 <213> Homo sapiens

 <400> 1334
 gaattcgcg cgcgctcgac tgcataatata ccataaacac tgtgaagaag caaccattag 60
 gcacaggaat ccagccagat aaattaagta gaaatgctca tctttcattt atgcctcgag 120

 <210> 1335
 <211> 157
 <212> DNA
 <213> Homo sapiens

 <400> 1335
 gaattcgcg cgcgctcgac gtacttgaag attaaaggcc ttactgagga gtatccaacc 60
 cttacaacct tcttcgaagg agaaataatc agcaaaaaac accctttctt aactcgcaag 120
 tgggatgcag atgaagatgt tgatcggaac actcgag 157

 <210> 1336
 <211> 205
 <212> DNA
 <213> Homo sapiens

 <400> 1336
 gaattcgcg cgcgctcgac gtcactgggg gtttcttctt tgcttgcttt ctctctcctt 60
 accctacccc ccactcacac acacacacac acacacacac acactttcta taaaacttga 120
 aaatagcaaa aacctcgaac tgttgtaaata catgcaatta aagttgatta cttataaata 180
 tgaacttttg atcactttac tcgag 205

 <210> 1337
 <211> 209
 <212> DNA
 <213> Homo sapiens

 <400> 1337
 gaattcgcg cgcgctcgac caagcttctg ctatagctcc tctcaaaaa catttcacag 60
 ctcatcaggg cctgtagaat agagcccaaa ctcttttttaa gtgggtatacc aagcccttca 120
 tgatctactt ccactatcca gcttcattta ccactgcctt tgtttcctat ctgctatccc 180
 actgcaaacg acatgcagct cccctcgag 209

 <210> 1338
 <211> 207
 <212> DNA
 <213> Homo sapiens

 <400> 1338
 gaattcgcg cgcgctcgac cttttttaag atagaaaaat ttttaggttt ttgttaccaa 60
 atctgtcagt cttttacttc attgtatttt tcagttatgg ctagaagac cttttgtacc 120
 acagattata tttttatttt ttctactaac tttgtatctt ttttatgttt caaaatttac 180
 atttatctgg aatcagtatt gctcgag 207

 <210> 1339
 <211> 158
 <212> DNA
 <213> Homo sapiens

 <400> 1339
 gaattcgcg cgcgctcgac tgattggaaa tcgaactgga aaccogaag caggagatgt 60
 atgtctcctt gggatgtatg gggaaatcac acagagctgt tagtacttca gtcatgggat 120
 ttgtctcat gctatgcata tgggcctcac aactcgag 158

<210> 1340
<211> 194
<212> DNA
<213> Homo sapiens

<400> 1340
gaattcgcg cgcgctcgac accagaacag agagggttaat ggtgtccacc acacgtcttt 60
ctcattcttt tctcctttat cttcactctg atttttcttt tgtcattcaa cgttactcc 120
cttccccata cctcagtcct ccaggtgaca cctgggctct tttctgctg aacagcattc 180
cccaccaact cgag 194

<210> 1341
<211> 236
<212> DNA
<213> Homo sapiens

<400> 1341
gaattcgcg cgcgctcgac agtaatccca tgtacttatt tcttaaatac ctaggaagtt 60
cttcttggtg gctcctcttg gccctccctt cttctctccc caaccaccca tcttgcaagg 120
caaggaatgg cctctccctc cacagaggca acggctgcag agggagcact gtggctgcca 180
tcccagttcc tcttcaaagc caaacagaca cgcgtgactc aaatccaaca ctcgag 236

<210> 1342
<211> 262
<212> DNA
<213> Homo sapiens

<400> 1342
gaattcgcg cgcgctcgac catactgtat ttttttgaag cggatcttaa acagtatcta 60
taagtattta ttcattcata agcatttcag tatttgcctc taaaagataa ggctctcttt 120
ttaaaatcat tatcacacct aagaaaaagt taataattcc ataatatcaa catatagtca 180
tatgtttaga ttgccagttg tttcacaaat gttatgtgtg tgtatacttt tcagtttatt 240
tttgactcag gatccctcag ag 262

<210> 1343
<211> 178
<212> DNA
<213> Homo sapiens

<400> 1343
gaattcgcg cgcgctcgac cccctgcctc gaggagatta tagtctatct ggagagatag 60
atgggtcaaca aattattaca taaataatcc atacagttgt gataggtact acaaagaaga 120
cgtataagtt gctatgaaag tttataatag gggaatttta cgtatccttg ggctcgag 178

<210> 1344
<211> 201
<212> DNA
<213> Homo sapiens

<400> 1344
gaattcgcg cgcgctcgac attttctctt cttattttgt tatacatacc cttcccttct 60
tccccctgct ttctgtacatt cattcctctt cctctacct ccagcacatc tacttactgg 120
tgctgtgctg tgtgtcagaa gataaaacag gtgtattatt gtataatgaa tttgtatac 180
atgtttatga aatggctcga g 201

<210> 1345
<211> 384
<212> DNA
<213> Homo sapiens

<400> 1345

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gaattcgcg cgcgctcgac cccagcttaa ccatataatc tgtgtgactt tgggtgaatg 60
attgaaacga tctgtgctcc gtgtcaccat ccacacggta gggatcacag ttggtctctg 120
tctctgggag gtctgtgggc tttaaatgag acagtagaga tgaagtgtt agagctgtgc 180
cccgatcatg gccagtgtgc aatgagatgg tctcagagta ttatggctgg agtcaccact 240
tgtattacca ggaagcccag cctctgtgat tacaggatc caactatgg gactctgcac 300
ctcttccttt ttctcttctt ttctcattcg tcttattacc atttgcgtgaa attaaatcag 360
aacacacagg ggtcgcacct cgag 384
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<210> 1346

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1346

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gaattcgcg cgcgctcgac gaggagagat cgaattcgcc tctgtctctc aggcctctct 60
gtctctgtct ttgttttga tgcggcgct gtgctctgtg gctcccgcc tttgtttgt 120
accccgagtc ttgctgacca tggcctctgg aagccctccg acccagcct cgcgggctc 180
ggattccggc tctggctacg ttccgggctc ggtctctgca gcctttgtta cttgcccccc 240
ccagctcgag 250
```

<210> 1347

<211> 328

<212> DNA

<213> Homo sapiens

<400> 1347

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gaattcgcg cgcgctcgac ctggtcttcg gcaagtccgc ctacttgttt gtcaagctgt 60
cccgctgggt gggaaggctg cgtttgtct ttacgcgctg gcccttcacc cactggttct 120
tctccttctg ggaagaccg ctgatcgact tcgagggtcg ctcccagttt gaaggcgcg 180
ccatgcccc gctcacctcc atcatcgta accagctcaa gaagatcac aagcgcaagc 240
acacctacc gaattacaag atcaggttta agccgttttt tccataccag accttgcaag 300
gatttgaaga agatgaagag tctctgag 328
```

<210> 1348

<211> 139

<212> DNA

<213> Homo sapiens

<400> 1348

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aaatttgaga gtggtagaat tactttctgt atctgaaata cctgagatgc actttaaa 120
gttgagatgt ctactcgag 139
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<210> 1349

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1349

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gaattcgcg cgcgctcgac cagaaagta aaggagacag agaaaaaatc cgctctgaca 60
agccacatcc atgattgatt gtaaggggat tattataatt gatagcttct ttatcatggg 120
attgctagta tcatttgtac ttgctggctt ttttaaagga acagactcac tcgag 175
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<210> 1350

<211> 166

<212> DNA

<213> Homo sapiens

<400> 1350

gaattcgcgg ccgcgctcgac gtttgggttt tacatacaag caatctgcac ttgatttta 60
aaaaagttct aaaatttttt aaaggatggg gtcttgcctat attgcccagg ctggagtgc 120
gtggctatcc gcagggtgcaa tcatcatggc acattacagc ctcgag 166

<210> 1351
<211> 192
<212> DNA
<213> Homo sapiens

<400> 1351
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actaatcttc ctttcataga acctctattt tttttttttc taaacttgag ttgagtcct 120
tggttatggc atcataaggt aatggttagc atgtttaaag atattcctct tccaaatccc 180
agcgaactcg ag 192

<210> 1352
<211> 273
<212> DNA
<213> Homo sapiens

<400> 1352
gaattcgcgg ccgcgctcgac cataatgttt gcaaagaagc attttctatt ttgcttcctt 60
tttgtttttt tagagacagg gtcttgttct gtcacccagc ctggcatgca gtggttcaat 120
catagctcac tgcagcctca aacctctagg ctcaagcgat cctcccactt cccaaagcgg 180
tggtattaca ggcattgagc acagtgtctg gtttattttt gcctttctaa agcatgggtc 240
ctagagcatg gtccctcccc taaaaatctc gag 273

<210> 1353
<211> 201
<212> DNA
<213> Homo sapiens

<400> 1353
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tgctcttcac ctgcttcttg cattttacag tgttctctt taggtattat cttcaccttg 120
acgccggaac ccaaatccag atttateccc ggtgtttgac tgatgcagct cttgcagatc 180
accttccatg tcgctctcga g 201

<210> 1354
<211> 211
<212> DNA
<213> Homo sapiens

<400> 1354
gaattcgcgg ccgcgctcgac aaataagcca cagtaccaag ggttgatttc agtaagcaag 60
tcccacaaac tttctgggaa gctttaagaa aatgaaaaatg ctctcttctc acctttgcag 120
ctgctgtacc ctctctctac ctctgctgac tgcagcaggt cagagtgggt ctgagggcct 180
ctctggcacg gctggcctgc cccacctcga g 211

<210> 1355
<211> 218
<212> DNA
<213> Homo sapiens

<400> 1355
gaattcgcgg ccgcgctcgac aaaggagacc ccgtcaaaaa aaaaagtact tgtcccaaaa 60
gtttttgttt cctagcttag aatttataat cagattaggt tttggagata aagtatatgt 120
gggtattttt ttttgagaca gtcttgctct gtcacaggc tggagtgcag tggcgcaatt 180
tcggctcact gcaacctcca cctcctgggt cactcgag 218

<210> 1356
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 1356
 gaattcgcg cgcgctcgac tgttactcta atattaccca agattttctc cagcctgttt 60
 ttactcttac ttgaaacag ctgtttaaaa tgactcgtaa tctgcttaaa tetacatgct 120
 ttttgtggtt ctcaatccag ttacctacct tccagataat tccctcactg tctgtctctc 180
 tccattcctc tgatgttctc gag 203

<210> 1357
 <211> 151
 <212> DNA
 <213> Homo sapiens

<400> 1357
 gaattcgcg cgcgctcgac caaactcctg ttgctttcgt ctatatcagg tctcattcta 60
 aaagaatatg aggcctcat taccctctct tctccactc ctagtcttcc tttttatatt 120
 tgacattggc agtagttcca gtacgctcga g 151

<210> 1358
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 1358
 gaattcgcg cgcgctcgac aatcctacct gatctttaac aaagcattaa taattctaag 60
 gataatctct attttgttgt gcttttttgt aactgtttta aataaatcaa tttgtactgt 120
 atatttgtac ttttgtgaga tcttttttgc tgtttttacca ttttaagtct ctgtacttgg 180
 ctacacacag attgtatttt tattgttaat gctcttctta tggatagccc tcgag 235

<210> 1359
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1359
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 ctaccacgac ttttttacta acatttttaca gttgatccag tcccctgtga caacccccct 120
 tgggctgac atgttgaaga caacttcaga agagctggct tgtcccctgt agcacctcga 180
 g 181

<210> 1360
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 1360
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 ttccacttga ttctagaactc ttgagtcac agattctggc gctcccgtct tcagtcgctg 120
 acttgccctc agaagcctat cttgggaggc cacacaccag tgtacctaaag gttccctgcc 180
 tcgag 185

<210> 1361
 <211> 278
 <212> DNA
 <213> Homo sapiens

<400> 1361

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gaattcgcg cgcgctcgac aagcatcctg cttttatgag tgtcatatat ttccatatct 60
ttttaaagat attaatcca agttttgttc ttggagtttt cttttgtttc cttcattgtt 120
tctgcctttt gaagtctttc ttctctttta ttgggtttt cagttttatc agggagacgc 180
ttccagccct gtgcagcata ggetgtaate ctgggagtag ggacaggaaa ggggaatgtg 240
ttgagagtec ccaaggccac cctcaggttc agctcgag 278

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<210> 1362

<211> 217

<212> DNA

<213> Homo sapiens

<400> 1362

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gaattcgcg cgcgctcgac ccatgatggt gatggcttca tttctcccaa ggaatacaat 60
gtataccaac acgatgaact atagcatatt tgtatttcta cttttttttt tagctattta 120
ctgtacttta tgtataaaac aaagtcactt ttctccaagt tgtatttgcct atttttcccc 180
tatgagaaga tattttgatc tccccaatga actcgag 217

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<210> 1363

<211> 283

<212> DNA

<213> Homo sapiens

<400> 1363

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gaattcgcg cgcgctcgac aatttcactt ttacctgcat acagactgct cgcagaaaagt 60
gattaattct tgatccaggc tcttctattt gcacacaacc tggatcagat tctctctgca 120
gttgctcagg agccacatgc gatttgctga gcatgtgcac tgggtggacag cagcccttcc 180
ctcctgcaga ggctacaccg cctccccaca ggcttggtgc agaccagagc tgtcacaggc 240
actttgtgag gtggagtgtc cagagagtag aggtatctc gag 283

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<210> 1364

<211> 202

<212> DNA

<213> Homo sapiens

<400> 1364

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gaattcgcg cgcgctcgac ccattcttcc gtattgggtg ggggtctctg tttctcatcc 60
tagctttttc ctggaaagcc cgctagaagg ttggggaacg aggggaaagt tctcagaact 120
gttggtctgt ccccaccgcg ctcccgctc ccccgaggt tatgtcagca gctctgagac 180
agcagtatca caggccctcg ag 202

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<210> 1365

<211> 276

<212> DNA

<213> Homo sapiens

<400> 1365

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gaattcgcg cgcgctcgac atttttcatg actctgggct gtgtctactg cagctatgga 60
agttgggacc ttttccggga ggcttatgct gccattgaga cttatcacca gacccaccca 120
cccacettct cttttcgaga aaggatgact cacaagagtc ttgtctacct ctggttctctg 180
tgcagtctct tggcacttgc cctgggtgcc ctaactgtat ggcattgctgt tctcatcagt 240
cgaggtgaga ctacatcga aaggcacaca ctcgag 276

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<210> 1366

<211> 365

<212> DNA

<213> Homo sapiens

<400> 1366

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gaattcgcg cgcgctcgac agattggatt gctggcaaaag cacagaatgc ctgtatatga 60
tgtaactgta tcaaaaataa aaagctgtca catattttgt aaatttttac cttgtaaagt 120

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cacaaaaata gtttttaaag gaaaaagtac agtattcttt taataaaactg gctcacagtc 180
tggtagggtct acaaccccat agcacacag gtttatagag atgtatatag aattatagtc 240
cttatttttt tcctttgcgt gaaacctttt ataacagatt aacaatcaac tgcataaata 300
ttattaatat tttaaaaaga gttaagttgt attttgataa ttcacaaact atcatgcacc 360
tcgag 365

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<210> 1367

<211> 291

<212> DNA

<213> Homo sapiens

<400> 1367

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gaattcgcg g cgcgctcgac tgtctggtt ggtgcagtta ccataccct caactcaaaa 60
cttcttgag ggaacatata tttttttcag agcctctgtg tgctgggtta ctgtatactt 120
cccttgacag tagcaatgct gatttgccgg ctggtacttt tggtgatcc aggacctgta 180
aacttcattg ttgcgctttt tgggtgatt gtgatgttt cctggtctat agttgctctc 240
acagctttcc ttgctgatag ccagctcca aaccgcaggg ttctcctat a 291

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<210> 1368

<211> 242

<212> DNA

<213> Homo sapiens

<400> 1368

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gaattcgcg g cgcgctcgac tgcaagatac agaggataag aggaaggaaa agaggaagca 60
gaagaaaaat ctatagctgc ctcatgaacc agaaaaagtg ccaagagcac ctcatgacag 120
gcggcgagaa tggcagaagc tggcccaagg tccagagctg gctgaagatg atgctaattc 180
cttacataag catattgaag ttgctaattg cccagcctct catTTTgaaa caagacctcg 240
ag 242

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<210> 1369

<211> 212

<212> DNA

<213> Homo sapiens

<400> 1369

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gaattcgcg g cgcgctcgac accacettct tcagcaaccc aaccacctca tcttgagaa 60
ggagaaggaa ctgcaagcca ccaagtcttc atttttcagg gtttgtaatc ttcccaaagt 120
tttcttttga aaataggata atgggtggaa ttttcagagt gattacatac ctcaacattt 180
ttattaacat acaacaatgg gaaagcctcg ag 212

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<210> 1370

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1370

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gaattcgcg g cgcgctcgac cgaaaaacac agaccgcttt aacctcttta tttctgtccc 60
ccactgcatg aacatctata caatttttaa aatacttctt cataggatgc tttggccctt 120
catctattta atcatagcta catacctatt ttttataagt agcagtaac attcaagggt 180
gcattctcgag 190

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<210> 1371

<211> 158

<212> DNA

<213> Homo sapiens

<400> 1371

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gaattcgcg g cgcgctcgac ccagccaaga ccaccatgaa gaaagcctat tacctggcat 60
gtggattttt tcgctggacg tctagagatg tgggcatggc agacaaatct gtagctagt 120

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gcgggttgga ggaacctgaa aatccacaca cactcgag 158

<210> 1372
<211> 114
<212> DNA
<213> Homo sapiens

<400> 1372
gaattcgagg ccgcgtcgac ccgcgtgtca ctttggacaa tggaaatcta cttttttttt 60
tccttttttt ttttttttag acagagtctc gccttgtcac ccagggtctt cgag 114

<210> 1373
<211> 193
<212> DNA
<213> Homo sapiens

<400> 1373
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tctgtactac ggaggaacag aatccatgga gatccccacc actgacatcc tggagctgct 120
gtcagctgcc agcctgttcc agctggatgc cctgcagagg cactgcgaga tctgtgtctc 180
ccataccctc gag 193

<210> 1374
<211> 204
<212> DNA
<213> Homo sapiens

<400> 1374
gaattcgagg ccgcgtcgac caaggatcaa gtcacaagg gatctgttag aggtgtcgca 60
gtggatggat taaaccagtt gacagttaca actggtagtg aaggattact caaattctgg 120
aactttaaaa acaaaatttt aatccattct gtgagcctca gttcatctcc aaatatcatg 180
ttgtacata gggacttact cgag 204

<210> 1375
<211> 313
<212> DNA
<213> Homo sapiens

<400> 1375
gaattcgagg ccgcgtcgac ctcggtttaa aattcgatc ttttccctta gtaattgttg 60
ggaagtaata ataccagtat ccttttttct gggcaaacct taatcctcca tggcttttagc 120
attcattgat gttttccaca tgaatcgata cctctatgac gttgccagat cctgtttctt 180
tatatccgct attccttctg catttggttag ttggcattct actgtaagga ggtgctttct 240
attttattca gtgagttgta atccattact tttattattt atttatttta ttttaaatgt 300
cccatttctc gag 313

<210> 1376
<211> 221
<212> DNA
<213> Homo sapiens

<400> 1376
gaattcgagg ccgcgtcgac cagaacaacc ctggaagtca atagatggca acagcagaga 60
gtaaagttag aactccatgg gggagaagaa accctcagga gaggcaggag ctctggcacc 120
aaccatctct ctgcccagaa tctccttcca agttgaagct tcaggagttt gggttcttcc 180
agggtacatt attggtccga taagattgga aaacactcga g 221

<210> 1377
<211> 168
<212> DNA

<213> Homo sapiens

<400> 1377

gaattcgcg cgcgctcgac gaaaaggaaa gaaatgaaga gaattcagag acttccatta 60
ttattaatac ctattttatt gattctgttt ctagecctga gtccgctcct aacttgcctat 120
aggatctctg gtaaatacatt tctgttaata agcagctgtc acctcgag 168

<210> 1378

<211> 179

<212> DNA

<213> Homo sapiens

<400> 1378

gaattcgcg cgcgctcgac tggatatatt ccagctgtag ttgccagtg tttacttaac 60
acatctacat ttttttcttg tctatttttg tccccttgat aggaaaagct ataattttag 120
gcaggactat acgtcgattt gtagccatgc ttccttctt tcccttgctc atcgtcgag 179

<210> 1379

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1379

gaattcgcg cgcgctcgac cataaaccac agaaatagta taacacacta tttttaaat 60
atcgttttcc tacttaaat ttgttttagt taagacttct taggacattt gtaaaagcag 120
gttaaattta ataaggttcc tgattttttt ttgtaaccgg agatagtttt tacaagttaa 180
ataacatttc agctaaataa aacatcgcta aataattgat atttgatgaa aatctgctcc 240
tgctcgag 249

<210> 1380

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1380

gaattcgcg cgcgctcgac ttctagacct acccccagtc cgcaggaacg ttgaaaatgg 60
atatacacta aaccataaag agtttgcctt ctttatggca atgttgccga agctgttgaa 120
catttagtaa aaatgcaaaa tgttctggca ctttaaaaa catctaaact tgttttgtct 180
tagttcttgc aatgccccc atacacaaaa gttattaaat atttctctgt gcattgtcac 240
tacttgtctc gag 253

<210> 1381

<211> 142

<212> DNA

<213> Homo sapiens

<400> 1381

gaattcgcg cgcgctcgac ggtgccaagg actactctca atactaaagg ctattttccc 60
tgccattaag ccacagactt cagtcacatc agtctactgc tttctctcta aacacatcat 120
gttctttcac atcctctctg ag 142

<210> 1382

<211> 218

<212> DNA

<213> Homo sapiens

<400> 1382

gaattcgcg cgcgctcgac aagacaccag atgaaagtac aaaaactaaa gaccagatcc 60
tgacttcaag aatcaatgca gtagaaagag acttggttaga gccttctccc gcagaccaac 120
tcgggaatgg ccacaggagg acagaaagtg aatgtgcagc caggatcgtt aaaatgtcct 180

tgagtcccag cagccccagg caccaggatc agctcgag

218

<210> 1383

<211> 191

<212> DNA

<213> Homo sapiens

<400> 1383

gaattcgcg cgcgctcgac atcacttata ctggaatgct cttgggtgtg ttgcatgtta 60
cagtgggtatt ggaaattatg cccttgctca gcactgtttc atcaaatcaa tccagtcaga 120
acaaattaat gctgttgcat ggaccaactt gggagtgtta tacctcacia atgaaaacat 180
tgcagctcga g 191

<210> 1384

<211> 231

<212> DNA

<213> Homo sapiens

<400> 1384

gaattcgcg cgcgctcgac gacccagca actacagta tctgcggcag ctgcaggtec 60
tggatttatt tctcgattcg ctgtcggagg agaatgagac cctgggtggag tttgctattg 120
gaggcctgtg caacctgtgc ccagacaggg ccaacaagga gcacatcctg cagcaggag 180
gtgtcccaact catcatcaac tgcctatcca gcccagtgga ggagactcga g 231

<210> 1385

<211> 154

<212> DNA

<213> Homo sapiens

<400> 1385

gaattcgcg cgcgctcgac ataacaaata tacacatacg acaggcaaca agcttggttt 60
tgatttgcca gacatgcac attggctatt gtttggtttt tttttgtttt tttgtgtttt 120
ttgggttact ttgaaaatga gccagaacct cgag 154

<210> 1386

<211> 213

<212> DNA

<213> Homo sapiens

<400> 1386

gaattcgcg cgcgctcgac cgtctggaac atgcgacttg tcttcttctt tggcgtctcc 60
atcctcctgg tcttggcag cactttgtg gcctatctgc ctgactacag gatgaaagag 120
tggtcgccgc gcgaagctga gaggtttgtg aaataccgag aggccaatgg ccttcccatc 180
atggaatcca actgcttcga cccaagctc gag 213

<210> 1387

<211> 187

<212> DNA

<213> Homo sapiens

<400> 1387

gaattcgcg cgcgctcgac acaagattgt gatttcatta tctaaacott aaacttaatc 60
ctttaaatct tgtagctttt ggctgcactt gcccgaagta ctattccagg caaattaaag 120
ttggaatacc ttttaataata taaaaataat gatagtaaat cttatacttc tgttggccca 180
tctcgag 187

<210> 1388

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1388
gaattcgcg cgcgctcgac ctctctgatg accagcccaa gcttccttgc cttaaattcg 60
tcattgcagca ttgcacttaa aagttcaagc ctggagctgg atttccaagt accattctgt 120
tttctcactt ggggaatgca gttatggctg gacttgacac gcggtcacc tctcgag 177

<210> 1389
<211> 127
<212> DNA
<213> Homo sapiens

<400> 1389
gaattcgcg cgcgctcgac gattgaattc tagacctgcc tcgagcttat gccctatatt 60
tttaattatt attattttta acttttggga cacacaaaaa tcagcaattc tcattgaagct 120
cctcgag 127

<210> 1390
<211> 219
<212> DNA
<213> Homo sapiens

<400> 1390
gaattcgcg cgcgctcgac gctgaatgac acagggagac tacagagtat ttattattac 60
aaacacataa aaagcctaac ttgaagaatt aaaattttcta ttttttatct gtataacaag 120
tacaaccat caacaatgac aaattttcac agctgcttgt ttattgcttg ttttatatgt 180
ttacatatct caaaatctgt taaaactgca ggtctcgag 219

<210> 1391
<211> 188
<212> DNA
<213> Homo sapiens

<400> 1391
gaattcgcg cgcgctcgac ttttagatga cgaagtccat aaataactag agaatttttg 60
ttattctgttg ttaagttgaa atgtataatc atttatcact aaattgcaca ttgcctttat 120
ttatttctgc tctgtttttg gtttacagtg taataatacc tcatttataa aataaaaacc 180
gactcgag 188

<210> 1392
<211> 201
<212> DNA
<213> Homo sapiens

<400> 1392
gaattcgcg cgcgctcgac gttgaaaaat gttatttttc actcgatgtt caaaatctcc 60
taggaaagca ggggcaaaag actttttttt ttttttttcc tctcattgct tggcattgca 120
aaagacttta aagagagaaa atgtctcttc cccactcttc tatatacatg ctgggaaaaa 180
aaagaccgga aggagctcga g 201

<210> 1393
<211> 231
<212> DNA
<213> Homo sapiens

<400> 1393
gaattcgcg cgcgctcgac cgcgcgccat cagactgggtg tcaccgggat catgattgcc 60
cgtggcgccc tgcctcaagc gtggctcttc acggagatca aggagcagcg gcaactggac 120
atctcgctgt ccgagcgccg ggacatcctg cgggacttca ccaactacgg cctggagcac 180
tggggctcgg acacgcaggg cgtggagaag acccggcgct ttctgctcga g 231

<210> 1394

<211> 128
<212> DNA
<213> Homo sapiens

<400> 1394
gaattcgcg cgcgctcgac gagggagact tcaattcaga atttttatcct tcataacatt 60
atagtgattt taaaagttaa atgcagcaaa tgtgtagtat ttttctcatt tcaaccttca 120
ttctcgag 128

<210> 1395
<211> 199
<212> DNA
<213> Homo sapiens

<400> 1395
gaattcgcg cgcgctcgac gcaggatgag attgggaact agaaaaccat tttggacccc 60
taaaagtgta ttgtctacta tctgtacatc attctcttac agctcttact gctgcttttc 120
ctgtcagtta ccccatagct ccagggtatc catgttaact gttcctgaca catgtagaca 180
gaaccaatat gatctcgag 199

<210> 1396
<211> 148
<212> DNA
<213> Homo sapiens

<400> 1396
gaattcgcg cgcgctcgac ctgagattat aggtagtggg caaacaattg ttattatgct 60
cacaggcact ataaacattt ttttctact ttttacttgt gtatgcttat cattggaagt 120
aaatataaca gactttgccg ttctcgag 148

<210> 1397
<211> 252
<212> DNA
<213> Homo sapiens

<400> 1397
gaattcgcg cgcgctcgac gagaatataa tccagttaga aaactgctat ttgcaaccc 60
tcagtaaaat aaatgaaatt gggaaacact aatcaacaaa agtacaattt ttaaatgtgg 120
atctggagac aaacctgtgt ctggtcagag ctacctacg ctatgaactg cctggctgta 180
catgacccat ccaatttcac agctgaacca aacttactta ccaccacat tagttttaac 240
actacactcg ag 252

<210> 1398
<211> 204
<212> DNA
<213> Homo sapiens

<400> 1398
gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctagacctct cccaacacac 60
tcctcaccgt attttttaac ccatttataa aaaaaaatct taaagccaaa attagaaaaa 120
taactcccta cttttccaaa gtgaattttg tagtttaatg ttatcatgca gcttttgagg 180
agtcttttac actgggaact cgag 204

<210> 1399
<211> 393
<212> DNA
<213> Homo sapiens

<400> 1399
gaattcgcg cgcgctcgac tatgggttca atagtttttt taattttatt agggggaatg 60

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atgggtgtct ttggatatac tacagcgatg gctattgagg agtatcctgc tgtagctcgt 120
aggtcagctc ctgctccttg cagcaaccgc ctccgatcac catcgccctc atctcttcc 180
cctgatcgtc cgcgtccctc agcgaggagg cactccctcc gtgggcgggc cctgaggtct 240
gggcccgcgc tgccacctcc tctcgtcgt cctctccttc ggccgcccgt ggccgcccgt 300
cttctcccc agccggctcc atcgctcccg gcgtcccggg cacactcatg ccccggcagg 360
cctaggctgg gcggtgtgga acagccgctc gag 393

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<210> 1400

<211> 442

<212> DNA

<213> Homo sapiens

<400> 1400

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gaattcgccg ccgcgtcgac gctggaggca gccgctggag gtageccagca gcatgcacaa 60
aaagctttcc cactcagtc ctcttccatg ccttccctgaa gccactttta atactgcaca 120
tctctttaat ccacaggag actgaagatc tctgggattt caaaaggatg tacagcagtg 180
aagatgcctt gagtaggatg ttacacagag cagccagctc cttatccagc atggcccgct 240
tcgtcaggct cctggagaat attcatccag tcttccagag gcatgacgct ccgcctctc 300
ttgacagggt gctggcccag gatcaagatt cccctccagg ccaccgctcc acctggggag 360
gcctcagccg cggccgtagc cgcggtggcc tccataacgg ctgcagtcgt ccccgccctag 420
agcctgggtt tggagcctcg ag 442

```

<210> 1401

<211> 282

<212> DNA

<213> Homo sapiens

<400> 1401

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gaattcgccg ccgcgtcgac gaggtatcgg cttattatat gctttctctc catgggaagt 60
aatatattaa aattcatttt tatctacagt gtggcccttg gtggggaaaa gctccccatt 120
cctgctctga ggagtgaact ccaatactgg ggcttgccca tgggtgctgc cacacccag 180
agagaggcga tgcaagcctg ctcccaggcc tgcctctcct cctcgacaaa ctggccatct 240
gttctctggg aaaaagagca gccttctctg atcttctctg ag 282

```

<210> 1402

<211> 330

<212> DNA

<213> Homo sapiens

<400> 1402

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gaattcgccg ccgcgtcgac gctttctctt ttgtgataa tccagtccca agttccttat 60
tattctgaat aaatgaaata gcttcttggt gacagtaatt ttctacatga ggaggtgatt 120
cctgcatgag ataactagca atgtattctg ttctcaagca gtacacgttc tgggcagcag 180
cttctgctat attaaactct gagtcactct gtttcagttt attcaagtca gaaaaaagat 240
gtgtggcctc tttaataaaa ggtacagaat gaccaggtag cacctttgct cctcctgact 300
gaagaaggcg ttggaagcct gcttctcgag 330

```

<210> 1403

<211> 266

<212> DNA

<213> Homo sapiens

<400> 1403

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gaattcgccg ccgcgtcgac ctgggtgttt ctcatctctg tttatctcta ctctgcagtc 60
tccccacccc tacttgatg ttgttggttg tgtttattgc atttctctat cctgcctgtt 120
tctcacccgt tttttccgc atgggcgtat caaccttgct gggctgtggt ggctcccg 180
ctagctctga ccttgccctg gccttctggc ttccacccag ctcaatccct gtctttgttg 240
cttcgttggt ccagagtctc ctcgag 266

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<210> 1404

<211> 256
 <212> DNA
 <213> Homo sapiens

<400> 1404
 gaattcgcgg ccgcgtcgac cctaaaccgt ccccatgaac tccgcactca tcaagtggct 60
 gtacctgcct gattttctcc gggccccc aa ctccaccaac ctcatcagcg actttctcct 120
 gctgctgtgc gcctcccagc agtggcaggt gttctcagct gagcgacagc aggagtggca 180
 gcgcattggct ggcgtcaaca ccgaccgcct ggagccgctg cggggggagc ccaaccccg 240
 gcccaacttt ctcgag 256

<210> 1405
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 1405
 gaattcgcgg ccgcgtcgac ggtggcatct gagaggctgg tcgtggactg tggttggggg 60
 aggtggggagc tgttttaacc gtgtgcccc tctcctgtgc cggcgtgggc atccccggg 120
 gcagtggaa cgcggcgctc ctccagcttc cgagtccagc cagcctgggc gcggggcgcc 180
 gccccgaga caccgagga gtccgttct cctgggttac gtggactgtg gagctggtct 240
 cttgtggctc agcgccgtgc ggaggtacct gag 273

<210> 1406
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 1406
 gaattcgcgg ccgcgtcgac agagccgtct ttctttctcc aacagttgcc ttccatgtt 60
 ccaacaaatg aaactgttta ccattctcca tgggccttgt cctctctcac ttctgggcct 120
 ttgcacaagt tatttctctc gtaaaacact tctccaate ctacctaaact ttgttttccc 180
 ctgggggctc ccacagcacc cagtacgcat agtcaaagc actgtcatac cttctgtgat 240
 ggctctctca gtagaccatg agttctctga g 271

<210> 1407
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 1407
 gaattcgcgg ccgcgtcgac aagtgccaga ttcttttaggg gctccaagag ttcattctgt 60
 ccacacagaa ggacggctgc agcatgaatg gccatttctg tcaccgttcc atcaagggtg 120
 ctgtcactag gccccgcct caacaatggc acagaattgt ccacgagcga tgttgcaaaa 180
 cggtgatata caggaggtga aaggatcttg cattcgccaa tgaatttgct cacagcttca 240
 cattgctctg gcgtgggggtg gaggcttgca ttgtgggac tgtacaaaat agccacctct 300
 ctaaacagtg ttaacaggaa gtaggctgac tgctggcttt ggggggtctt gcaggccttc 360
 agagcagttc taatgcccag tggcttgca ctcag 395

<210> 1408
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 1408
 gaattcgcgg ccgcgtcgac cgagatgttg ctgctgctgc tactggcgcc accttctctc 60
 cgcccccg ggcggggcg ggtgcagacc cccaacgcca cctcagaagg ttgccagatc 120
 atacacccgc cctgggaagg gggcatcagg taccggggcc tgactcggga ccaggtgaag 180
 gctatcaact tctgcccagt ggactatgag attgagtatg tgtgccgggg ggagcgcag 240
 gtgggtggggc ccaaggtccg caagtgcctg gccaacggct cctggacaga tatggacaca 300

ctcgag

306

<210> 1409

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1409

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gaattcgcg cgcgctcgac gccatgcacc gtctaccgct gctgctcctg ctgggcttgc 60
tgctcgcgagg ctccgctcgcc cctgcgcgcc tcgtcccgaa gcgcctttcc caacttggtg 120
gcttctcctg ggataactgt gatgaaggaa aggaccctgc agtgatcaaa agcctcacga 180
tccaacctga ccccatgtgt gtccctggag atgtagtcgt cagccttgag ggcaagacca 240
gcgttccct cactgctcct cagaagggtg agctcaccgt ggagaaggaa gtggctggct 300
tctgggtcaa gattccttgt gtagaacagc taggcagctg tagctacgag aacatctgtg 360
acctcgag 368
```

<210> 1410

<211> 340

<212> DNA

<213> Homo sapiens

<400> 1410

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gaattcgcg cgcgctcgac ggcatgggg gacagaggag gtgggacctg gcagaccac 60
agctcccaag ctgggggtccc ggaggcagag tgacaatgca tggctgtgtg ggagccaggc 120
aggcgggtgac gtggcagagc tgccagcagg ggccaagag actgcagcag gttggtgctc 180
acagtggatc tgaggggatgg gcgtgcgtgg cagggccttg gccatggccc ctgaccaacc 240
cctgtgcacc aaacaccaca ctgagctcag aatccgggca gagagggaac cactggtaca 300
gtgaggccaa ggcacacgca gccgggcctg cagactcgag 340
```

<210> 1411

<211> 276

<212> DNA

<213> Homo sapiens

<400> 1411

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gaattcgcg cgcgctcgac taaaccgtcg atgaattctc ccaccagca gctgaaggga 60
gaaagacgag gaggcaggga gcagacgagg aggtggggag caggcagccc gggcctcaga 120
ggacacatgg ccttcccccg ctggcaccac caccatcagg ccaccagggg actgctcaca 180
cccagggtt gccgcctctg gacctggctg tccttggttc tgctgacctc aggagtgaac 240
tgggcttaca gaggtactgg caaggaggga ctcgag 276
```

<210> 1412

<211> 281

<212> DNA

<213> Homo sapiens

<400> 1412

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gaattcgcg cgcgctcgac ctcattgcca tgatgggtatg gagcatcacc taccacagct 60
ggctgacctt cgtactgctg ctctgggccc gcctcatctg gacagtgcgc agccgccacc 120
aactggccat gctgtgctcg ccttgcaccc tgctgtatgg gatgacgctg tgctgacctc 180
gctacgtgtg ggccatggac ctgcgcctcg agctgccac caccctgggc cccgtcagcc 240
tgccgccagct ggggctggag cacaccgct acccctcga g 281
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<210> 1413

<211> 450

<212> DNA

<213> Homo sapiens

<400> 1413

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gaattcgcg cgcgctcgac ctaaaccgtc gattgaattc tagacctgac ccgttccgct 60
```

```

gtgtacaccc tgaacctggc actggcggac ctgatgtatg cctgttcaact acccctactt 120
atctataact acgccagagg ggaccaactgg cccttcggag acctcgcttg ccgctttgta 180
cgcttcctct tctatgccaa tctacatggc agcatcctgt tcttcacctg cattagcttc 240
cagcgctacc tgggcactctg ccaccccttg gcttctctggc acaagcgttg aggtcgccgt 300
gctgcttggg tagtgtgtgg agtcgtgtgg ctggctgtga cagcccagtg cctgcccacg 360
gcagtctttg ctgccacagg cctccagcgc aaccgcactg tgtgtctacga cctgagccca 420
cccatcctgt ctactcgcta cccactcgag
450

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<210> 1414

<211> 345

<212> DNA

<213> Homo sapiens

<400> 1414

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gaattcgcgg ccgcgtcgac cgattgaatt ctagacctgc ctgcacccc caatctcaac 60
cccaaccccc tcatcaacgt gcgcgaccgg ctcttcacag cgctgttctt caagatgggt 120
gtcacctatt ccgggctctt ccgcgccgcc ttccgcctgc tcttcgagtt ctctgtgtgt 180
ctcaaggccc tgtttgtgct ctctgtcctg gcctacatcc acatcgtctt ctcccgtctg 240
cccatcaact gcctggagca tttctgtgac agcggcggcc gcgggagctt cccgggcctg 300
gcctgggaac caggcagcaa cctggacatg caagatgagc tcgag
345

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<210> 1415

<211> 355

<212> DNA

<213> Homo sapiens

<400> 1415

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gaattcgcgg ccgcgtcgac acttttttct ctttctgtat cctgttcaag aaatagtgtg 60
ctactccaag gtcattgcaga tgttttttct taaatgcttt attgtcttgt cttttatttt 120
ttatatctat ggtctatttg gtatggcttc gtgtgtgtgg tgtgaggtag ggattgagat 180
cttttttttt ccattgggat atctgattga cccagcatca ttttctaaaa gatgcctttc 240
ctcattgcac tgcggcgctt cctgtgtgct ttgtacaggg atgacaggga tgaggatgat 300
aaagaatagg catagcgtgt ctttctcttg tgagacacag ggactccaac tcgag
355

```

<210> 1416

<211> 412

<212> DNA

<213> Homo sapiens

<400> 1416

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gaattcgcgg ccgcgtcgac aactcgggtg acaactgagg gaaccaaacc agagacgcgc 60
tgaacagaga gaatcaggct caaagcaagt ggaagtgggc agagattcca ccaggactgg 120
tgcaaggcgc agagccagcc agatttgaga agaaggcaaa aagatgcttg ggagcagagc 180
tgtaattgctg ctgttgctgc tgcctcggac agctcagggc agagctgtgc ctgggggcag 240
cagccctgcc tggactcagt gccagcagct ttcacagaag ctctgcacac tggcctggag 300
tgcacatcca ctagtgggac acatggatct aagagaagag ggagatgaag agactacaaa 360
tgatgttccc catatccagt gtggagatgg ctgtgacccc ccagaactcg ag
412

```

<210> 1417

<211> 110

<212> DNA

<213> Homo sapiens

<400> 1417

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gaattcggcc aaagaggcca ttcaaaaagg ggttaagagt taaaatgggt tgtgcagctg 60
taacactgga gctattttat ctcttaactga cagttaagga gagtctcgag
110

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<210> 1418

<211> 105

<212> DNA

<213> Homo sapiens

<400> 1418

gaattcggcc aaagaggcca ttcaaaaaaa cgtgagaagt atttttgtac cctgtgtaac 60
aaaatattta tgcatacataa aggatttttc atatgcgtac tcgag 105

<210> 1419

<211> 103

<212> DNA

<213> Homo sapiens

<400> 1419

gaattcggcc aaagaggcca ttcaaaagacc tgccctgaga ggtctcgagg caggtctaga 60
attcaatcgc ctcaagaaggc caaagaggcc attcgccttc gag 103

<210> 1420

<211> 105

<212> DNA

<213> Homo sapiens

<400> 1420

gaattcggcc aaagaggcca ttcaaaaattt gaactgtttat aaagaaagtt gctttatttc 60
tttaaacatc ttcaaaagat gatcctttct tgtcacattc tcgag 105

<210> 1421

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1421

gaattcggcc aaagaggcca ttcaaaaatg tatggaaatt caactaattt ttgggtgctgt 60
tattctattc ttcaaatcca ctgcataatgt tttttagtcc cagtactcga g 111

<210> 1422

<211> 125

<212> DNA

<213> Homo sapiens

<400> 1422

gaattcggcc aaagaggcca ttcaaaaaaa agattcagca aattgcttaa aatcgaggta 60
actagcaagc atatatcaag ggatacatga ctcggtcttc gtctagtctc aaagccgtac 120
tcgag 125

<210> 1423

<211> 103

<212> DNA

<213> Homo sapiens

<400> 1423

gaattcggcc aaagaggcca ttcaaaaaat ttgaattcag aagataagca ggtaaaattt 60
atcacaaagt tgtgtggtaa tgagagtga ggtgctctc gag 103

<210> 1424

<211> 126

<212> DNA

<213> Homo sapiens

<400> 1424

gaattcggcc aaagaggcca ttcaaaaatg aaatgcattt ctagtttgaa cctaattgcc 60
acttggcttg atattatttt ccttagaatt gttggaatag aggagagagg aagggagcaa 120

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ctcgag 126

<210> 1425
<211> 141
<212> DNA
<213> Homo sapiens

<400> 1425
gaattcggcc aaagaggcca ttcaaagatt gtaaaatagct tacaatttac aaataataaa 60
tatacaaatgc tgtttatcat aaaaatccac ttagccaatt ggttcttaca aaatgttttt 120
gttaatatatt gcgaactcga g 141

<210> 1426
<211> 133
<212> DNA
<213> Homo sapiens

<400> 1426
gaattcggcc aaagaggcca ttcaaaaaca ggaatttgag cacaagatga gaaaatgtgt 60
tggcccccta gcgctggtgg gctggatggc ggccacagca cacgggggca cctcattccg 120
cagggagctc gag 133

<210> 1427
<211> 106
<212> DNA
<213> Homo sapiens

<400> 1427
gaattcggcc aaagaggcca ttcaaagtca gatgaaaac tttttattct caaaattgtt 60
tttcagttcg gtaaatatatt tgagtgtgta tgcacgcggc ctcgag 106

<210> 1428
<211> 109
<212> DNA
<213> Homo sapiens

<400> 1428
gaattcggcc aaagaggcca ttcaaaataa ttggaatata cttttctttaa aaaaaaggaa 60
cagtttagttc tcattctagaa tgaaagtcc atatatgcat tggctcgag 109

<210> 1429
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1429
gaattcggcc aaagaggcca ttcaaaataa acacagtaag tactcagaaa ctacttgaag 60
agtgcagtta tcagtagaga tgatcgaaac atttgttttt ctagggaata tttttgcctt 120
tctttctcca gaatcctctg gttataatgt gtcactgct aggtcaccag tcataaaaca 180
taaacctcgag 190

<210> 1430
<211> 111
<212> DNA
<213> Homo sapiens

<400> 1430
gaattcggcc aaagaggcca ttcaaaaata atgatatttg gcctctactt tgtcttagct 60
gttaaaactgt ttttagtatt ttgtttaa attgcaaaag ggaaactcga g 111

```

<210> 1431
<211> 103
<212> DNA
<213> Homo sapiens

<400> 1431
gaattcggcc aaagaggcca ttcaaaaaag agaaggcttc ttccttattg atatcatggt 60
atgcattaat tccatttggt actattgtgc acaggccctc gag 103

<210> 1432
<211> 178
<212> DNA
<213> Homo sapiens

<400> 1432
gaattcggcc aaagaggcca ttcaaaaaag aaagcagctg ggactaatga actttacatt 60
agccatattc cattatttca gcttaagtca aatgtcggtc ctcatgaggc aactggcttt 120
gacaggagct acgctaatta ccacttacca acctttaatt tctgggcaaa acctcgag 178

<210> 1433
<211> 115
<212> DNA
<213> Homo sapiens

<400> 1433
gaattcggcc aaagaggcca ttcaaaagtat ggggtttctc actctgcttt tcttcctgtg 60
gggcttcggg gtgctgtact gttgtccctt catttgcagc aggtatcacc tcgag 115

<210> 1434
<211> 102
<212> DNA
<213> Homo sapiens

<400> 1434
gaattcggcc aaagaggcca ttcaaaaatg cagtatttat tctttgtagg cataatgtgt 60
ttgtcactga caagcattca tgttcatacc actagtctcg ag 102

<210> 1435
<211> 125
<212> DNA
<213> Homo sapiens

<400> 1435
gaattcggcc aaagaggcca ttcaaaaaaa atagaaagta aatagttcta agaattattct 60
ggcataaatt atttttattt agccaataaa atagcctcca aatgtatata tcagttgccc 120
tcgag 125

<210> 1436
<211> 104
<212> DNA
<213> Homo sapiens

<400> 1436
gaattcggcc aaagaggcca ttcaaaaagt attgcttaat agaaagtgag tagaacttat 60
attcgatcat gttattgagc acatacttac gggcagttct cgag 104

<210> 1437
<211> 125
<212> DNA
<213> Homo sapiens

<400> 1437

gaattcggcc aaagaggcca ttcaaaagga ggtcaccaag aaacatcagt atgaaattag 60
gaattgttgg ccacctgtat tatctggggg gatcagtcct tgcattatca tggaaacacc 120
tcgag 125

<210> 1438

<211> 206

<212> DNA

<213> Homo sapiens

<400> 1438

gaattcggcc aaagaggcca ttcaaaaaaa gcagaatgtt ttcttcagaa ggccaaagag 60
gccattcaaa aaaagcagaa tgttttcctc agaaggccaa agaggccatt caaaaaagca 120
gaatgttttc ctcaagaaggc caaagaggcc attcaaaaaa gcagaatgtt ttcttcagaa 180
ggccaaagag gccattcaaa ctcgag 206

<210> 1439

<211> 104

<212> DNA

<213> Homo sapiens

<400> 1439

gaattcggcc aaagaggcca ttcaaaaaga taaaattaaa aagccagaca tactttctat 60
caagctgcgt aaagagaaac atgaagtaca aatggatcct cgag 104

<210> 1440

<211> 120

<212> DNA

<213> Homo sapiens

<400> 1440

gaattcggcc aaagaggcca ttcaaacctc cagaaggcca aagaggccat tcaaacctc 60
agaaggccaa agaggccatt caaacctca gaaggccaaa gaggccattc aaacctcgag 120

<210> 1441

<211> 119

<212> DNA

<213> Homo sapiens

<400> 1441

gaattcggcc aaagaggcca ttcaaaaaca tattttaagc caagtttttag gtgtattttt 60
tgaatcttgg ttataaaccc aattttaaag ggcatgtat gccagcgttg ttactcgag 119

<210> 1442

<211> 123

<212> DNA

<213> Homo sapiens

<400> 1442

gaattcggcc aaagaggcca ttcaaaagta ttttgaactt agctcatcaa aggccataaa 60
taatctgtaa acatgtttta taaaaaaaaa atcactaaag ctgatcccaa agagccactc 120
gag 123

<210> 1443

<211> 115

<212> DNA

<213> Homo sapiens

<400> 1443

gaattcggcc aaagaggcca ttcaaagatt aataatgagc ttttgtttta cgtttttgag 60

cctgcttctt gcatgcataa aattaatact tcagccctct tccaaagaac tcgag 115

<210> 1444

<211> 128

<212> DNA

<213> Homo sapiens

<400> 1444

gaattcggcc aaagaggcca ttcaaaccat tcaaacctca gaaggccaaa gaggcattc 60
aaaccattca aacctcagaa ggccaaagag gccattcaaa aaaaagtaaa acttgctgct 120
gactcgag 128

<210> 1445

<211> 110

<212> DNA

<213> Homo sapiens

<400> 1445

gaattcggcc aaagaggcca ttcaaacaaa ttgattgta cttataagaa caatacattg 60
tttttataat gttaatatcc tgttttgcc ttataattcc cacactcgag 110

<210> 1446

<211> 118

<212> DNA

<213> Homo sapiens

<400> 1446

gaattcggcc aaagaggcca ttcaaaagac ctgcattcta gctgttgga caactgaccg 60
aacgtctagc accacactct cactaagaat ttcactgatg aggcgggtggt ttctcgag 118

<210> 1447

<211> 121

<212> DNA

<213> Homo sapiens

<400> 1447

gaattcggcc aaagaggcca ttcaaaaagg agttgtgtgt gtgttttgca tacaacttta 60
caatttcata gttgaaagct gttacaaaat gaaagttttg tgtatggtag gaattctcga 120
g 121

<210> 1448

<211> 152

<212> DNA

<213> Homo sapiens

<400> 1448

gaattcggcc aaagaggcca ttcaaaaatt aactgaggca ggtgatcggt tttttaagct 60
gattagggaa acagtatata agaacttact taactcataa taaaactaaa attcaacagg 120
ggagagttat gatTTTTTg ctcgctctcg ag 152

<210> 1449

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1449

gaattcggcc aaagaggcca ttcaaaaaaa atgaggattg ccttccttgt atgcgctttt 60
taccttgact acctgaattg caagggattt ttatatattc atatgttaca aagtcagcaa 120
cgctcgag 129

<210> 1450
<211> 133
<212> DNA
<213> Homo sapiens

<400> 1450
gaattcggcc aaagaggcca ttcaaaaaag agtaggctat aaggggaagat tgtcaatatt 60
ttgtggtaag aaaagctaca gtcatttttt ctttgcactt tggatgctga aatttttccc 120
atggatcctc gag 133

<210> 1451
<211> 101
<212> DNA
<213> Homo sapiens

<400> 1451
gaattcggcc aaagaggcca ttcaaaaatt acgcattttc tttatcccca gaatagacat 60
acataaaaaat aatgcatact aagttcctgg caattctcga g 101

<210> 1452
<211> 142
<212> DNA
<213> Homo sapiens

<400> 1452
gaattcggcc aaagaggcca ttcaaaagta taaaacaagc aaagaaggga gtgtaatggg 60
agttacagta tcccggttg caatgttgc tcactgccaa gctctgtcgc aggcctgcaa 120
ttattctgaa ggggcgctcg ag 142

<210> 1453
<211> 102
<212> DNA
<213> Homo sapiens

<400> 1453
gaattcggcc aaagaggcca ttcaaacata aacataagca taaacataag aaacacaaaa 60
gaaaagaggt tattgatgct tctgataaag aggggtactcg ag 102

<210> 1454
<211> 111
<212> DNA
<213> Homo sapiens

<400> 1454
gaattcggcc aaagaggcca ttcaaacata atgtcagaat taattttaa ac aaattataat 60
taatgtaata tgatttttagg aaagatgaaa cactttatga gagccctcga g 111

<210> 1455
<211> 132
<212> DNA
<213> Homo sapiens

<400> 1455
gaattcggcc aaagaggcca ttcaaaaata aaattattga acagcttagc cctcaagctg 60
ccaccagcag agacatcaac aggaaactag attctgtaaa acgacagaag tataataagg 120
aacatcctcg ag 132

<210> 1456
<211> 136
<212> DNA

<213> Homo sapiens

<400> 1456

```
gaattcggcc aaagaggcca ttcaaaaaat aaagtgactg aactgtcaga tcaacaagat 60
caagctatcg aaacttctat ttgaattct aaagaccatt tacaagtaga aaatgatgct 120
taccctgatt ctcgag 136
```

<210> 1457

<211> 104

<212> DNA

<213> Homo sapiens

<400> 1457

```
gaattcggcc aaagaggcca ttcaaaaata tgatcgaaga aataaagacc ccagcctcta 60
ccccgtgtc tggaactcct caggcttcac ccatgggtcct cgag 104
```

<210> 1458

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1458

```
gaattcggcc aaagaggcca ttcaaaaatc gaaaaggaaa atactttaac gttgaaagag 60
ttggtcagta cttgaaagat gaagatgatg atcttggtgc acccctcga g 111
```

<210> 1459

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1459

```
gaattcggcc aaagaggcca ttcaaaaaag gaagaaaaaa acagatttac accacagata 60
gtgatgagat ttcacatatt gttaatcgta ttgctcctca gccaaaggat gaaaaaccaa 120
caactcgag 129
```

<210> 1460

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1460

```
gaattcggcc aaagaggcca ttcaaaaaaa aagaaagtta tttctttgtc ttaaagaatt 60
tttaaaaaat tagtcatgag acttattcat ctttcaggg aacttctcga g 111
```

<210> 1461

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1461

```
gaattcggcc aaagaggcca ttcaaaaacta aaataaaaca tatgtgtcta tggttttcaa 60
ttggagtagt ctttcttact ttccccttc cctcttttg ttctcctaac cagcttagag 120
gacccaaaga gagcttaggg atagacacca gaatactctg tggagggtctc gag 173
```

<210> 1462

<211> 141

<212> DNA

<213> Homo sapiens

<400> 1462

gaattcggcc aaagaggcca ttcaaaaatc aagagtttga gagcgtccgg ctgaatgaga 60
cactttcatt atttttctgat gacaataaga ttacaattag actggggaga gcacttaaaa 120
aaggagaata cagagctcga g 141

<210> 1463
<211> 123
<212> DNA
<213> Homo sapiens

<400> 1463
gaattcggcc aaagaggcca ttctgaggcg gttggtgggt caatggtgaa gatacagtct 60
tttcttaaat cccttctctt gctgaaactcc tctggtggaa ttgtccatgg cagggtcactc 120
gag 123

<210> 1464
<211> 105
<212> DNA
<213> Homo sapiens

<400> 1464
gaattcggcc aaagaggcca ttcaaatatg tatcggttgg ttttaatggt atatattgga 60
ttgtattcga tgttacaaaa ccaatattct atggagtcctc tcgag 105

<210> 1465
<211> 117
<212> DNA
<213> Homo sapiens

<400> 1465
gaattcggcc aaagaggcca ttcaagtat atcacacatt tagaagtaca aattaatcca 60
ttttgcttta tgaattcatt ttacatttat ataactcttc ttacattctg tctcgag 117

<210> 1466
<211> 102
<212> DNA
<213> Homo sapiens

<400> 1466
gaattcggcc aaagaggcca ttcaagaat tgaaacatct taatttcaaa ttcaaataga 60
acatttaaaa tgatttcatt attattaccc atactctctg ag 102

<210> 1467
<211> 118
<212> DNA
<213> Homo sapiens

<400> 1467
gaattcggcc aaagaggcca ttcaaaaaaa ttttgcattc tacttatggg taatatcttt 60
ttcatatatt atttatcaaa gtatgaagtt gagtatcttg cttgtaccac tctcgag 118

<210> 1468
<211> 107
<212> DNA
<213> Homo sapiens

<400> 1468
gaattcggcc aaagaggcca ttcaaaaatc ataaatatag aaacagtagt aatacagctg 60
acattaccat ttaattttat attatgaaag caaatcatct gctcgag 107

<210> 1469

<211> 433
<212> DNA
<213> Homo sapiens

<400> 1469
gaattcgcg cgcgctcgac ccaaccccag gttatcttcc cctttgtctt ccagccccc 60
agaaacagct acgactcaac ctacccaatc atttcacatc cagattgcca ctgtctctag 120
ttcagggtctc ttgggactgg cactcagaaa tctcataata aatcctcttg aggtttctca 180
tacactcgtc ttcttccaat cttctttccc tcaaaatctc atattttggg tccacttcac 240
ccaccgtcat tctccatata actcccagga gttaggcaaa aagccccctc cgttcttccg 300
tatgttaaac ttagaatcac tctgttccct gctctgcgtt tctatTTTTT gttttccctc 360
atttactagt agcttaacac tttctaacag tgttcttatt attgatacgt atctatctct 420
tccaaagctc gag 433

<210> 1470
<211> 158
<212> DNA
<213> Homo sapiens

<400> 1470
gaattcgcg cgcgctcgac cctgtgtgtt ttctgttact tgctagccac aaagtccctg 60
caaacagaaa ctttagatcc actgctctct ttactctccc tctctatagc gctgtgaagc 120
aaatgtcctg catcatcccc attgcacaca cgctcgag 158

<210> 1471
<211> 270
<212> DNA
<213> Homo sapiens

<400> 1471
gaattcgcg cgcgctcgac ctaaaattct gatttgcatt gtgggtttta ggggttcagat 60
tagcaagtgg gattgttttt tagcacttaa atccctcact tcatgctctg ttgacacaaa 120
tctaaagagg cactgggtatg tctaaagagg cactgggtatt gtttattacc tctagtgtga 180
tttgactttg ggattgtaga gaaaaataat ttctttttgt gggatggggg aagaatccca 240
tgccagtatt catcatatgg gaccctcgag 270

<210> 1472
<211> 359
<212> DNA
<213> Homo sapiens

<400> 1472
gaattcgcg cgcgctcgac ctaattatgt aattatgtaa gctagctttt catgtttatg 60
tatgtatggt gtcccccctgt gttatcttcc tccctcttgg tttttgaatt agtgttaaatt 120
agaatactgt ctgattctct aaaatatctt catttccatc atgggtataa caaatttgc 180
gcatgcccaa actgacaaca gcaatcactg agggaaacagg ttttgaatct ttcttttgtg 240
ttatgaagtt tatcgtctct acttgcttga gatttttgtt attttggggg tttgggggtg 300
ctttttgttt tgtttttgcc aaatgtaaca tgaaagcaga tgctgcagct tctctogag 359

<210> 1473
<211> 407
<212> DNA
<213> Homo sapiens

<400> 1473
gaattcgcg cgcgctcgac gaaatcatgg actaccagag cagacttaag aatgctgggtg 60
aagagtgcga gagcctcagg ggccagcttg aggagcaagg ccggcagctg caggctgctg 120
agggaagctg ggagaagctg aaggccaccc aagcagacat gggagagaag ctgagctgca 180
ctagcaacca tcttgccagag tgccaggcgg ccattgctgag gaaggacaag gaggggggtg 240
cctgcgtgta agacctagaa aggacccaga aggaactcga aaaagccaca acaaaaaatcc 300

aagagtatta caacaaactc tgccaggagg tgacaaatcg tgagaggaat gaccagaaga 360
 tgcttgctga cctggatgac ctcaacagaa ccaagaagta tctcgag 407

<210> 1474
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 1474
 gaattcgagg ccgcgtcgac attgaattct catgcctcac ctctcctcag tagctgggat 60
 tacaggcgtg caccaccaca cctgtctaatt ttttgtatct ttttagtaga gacggagttt 120
 tgccgtgttg gccaggcttg tctcaaaactc ctggcatcaa gtaatctgcc tgcctcagct 180
 tcccaaaagt ctgggattac aggcataagc caccgtgccc ggctatcttt cgccattttt 240
 atatcctgtt gtatttaggc tctttttgta gacctcctat ttctagatct tttaaaaatc 300
 caatcccaga gtttggtgtc tttttttctc tctctcattt aataggttga attttctttt 360
 cctagtttga aatgtacaca ttctattgtg ttctcagttta aattttgggc attatcccaa 420
 accaatctat gcttacattt atacgtttgg tttcttttat tgttgttata agtatcttta 480
 tatcactcac tgccttcaac ataaatacct tgacactcga g 521

<210> 1475
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 1475
 gaattcgagg ccgcgtcgac agaagttgct ggtcttgaca tgaatatcag ccaatttcta 60
 aaaagccttg gccttgaaca ccttcgggat atctttgaaa cagaacagat tacactagat 120
 gtgttggttg atatgggtca tgaagagttg aaagaaatag gcatcaatgc atatgggcac 180
 cgcacacaaat taatcaaagg agtagaaaga ctcttaggtg gacaacaagg caccaatcct 240
 tatttgactt ttcactgtgt taatcagggg acgattttgc tggatcttgc tccagaagat 300
 aaagaatatc agtcagtggg agaagagatg caaagtacta ttcgagaaca cagagatggt 360
 ggtaatgctg gcggctcctga g 381

<210> 1476
 <211> 118
 <212> DNA
 <213> Homo sapiens

<400> 1476
 gaattcgagg ccgcgtcgac cttaggctcag gttctgtcaa gttaccaaca gaagctactg 60
 attgtaaaat ttcaattaca ctcttatcct gtcaagtaaa atggtaggca gtctcgag 118

<210> 1477
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 1477
 gaattcgagg ccgcgtcgac tggaatcata ggatgtggag gatgggtactc atacactgtg 60
 tctgcctctg ggtggggggc acaggactgg ttccagtctg ctctggatgg agtcagtcag 120
 ttgccagaat gcagaagtcg gaaaaacatc tcaaaagacc agtcttgcca gagctcgag 179

<210> 1478
 <211> 279
 <212> DNA
 <213> Homo sapiens

<400> 1478
 gaattcgagg ccgcgtcgac taggagtgaa tatgtgggtc ccttttgta tgcacaatag 60
 aattgttctc ccaatttttt ttttttttgc ctgtcacttc atactctatt ctatttactt 120

```

ccctttctag ttagtaaggc atgttgggtg aactccctt ttttggcaaa aaggcattta 180
cctttctctt cccattacc actaccagca caccaataca gattttcccc ctgcctcagg 240
gaggccatga ctggaggag gggtaaggag cctctcgag 279

```

```

<210> 1479
<211> 144
<212> DNA
<213> Homo sapiens

```

```

<400> 1479
gaattcgagg cgcgctcgac gtcttgggtc agattataaa aattacaatt gattacataa 60
aacttaatta accttttctt tctctctcat agatactctt catatcaatt catgtatttc 120
caagtactat accattact cgag 144

```

```

<210> 1480
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<400> 1480
gaattcgagg cgcgctcgac gccagcatgg tcaacttctg gcgagagctc tcttctctgt 60
atgtaaaatgc ccacttctc atgtcttcac aggaaggaaa ccaacaaata ggtctctctc 120
tctctctctc tttctctctc ctctctctc ctcttctctc ctctctctcc accatctctc 180
tcttctctct cctctctctc gccctcgag 209

```

```

<210> 1481
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<400> 1481
gaattcgagg aaagaggcct aagtgacttt agtagaagct attgagaaaa gactgatcag 60
cctgaactg gcaaatatga tccaaataga tagttcagag ttcagcgatc acagggctca 120
gattgaaaag caagaaggga ttgaagtgtg tgcattacaa aatgaatttc taggaaagga 180
tatgttaatt gcttgtaatc agactgctga aatgagttgt aataaagtag aagagagtga 240
gagattattt caagttgaaa atcagtctgc acaagaaaag gttaaagtga gagtttctga 300
tggggagcag gcaaaaaaga gcagggaat ttccttaaag gaatttgggt gcaaggatca 360
acgtaagcca agaattgtct cagatgctaa agaatttatc agtatcataa atcctcataa 420
tcttaaaagt aaatccttgg gccaaagtgc attgacacac ccttactctg aatgtgattt 480
taaacttaaa gaagtggcta gaaataacat gggaaatgat acaaacctcg ag 532

```

```

<210> 1482
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<400> 1482
gaattcgagg aaagaggcct agatcagtag cattaacaaa agttgcttta aaagccatta 60
tgtaaaacaa gacttgaaaa tgagtggagg aatttttagc acactgtctg agcagcagtg 120
ggaaccatct tcgtttctcc tttgaactcc cagtgggatg cctaccctg cgccttagg 180
accgggactg accgtgtaca aaactttacg tgccaaaatt ctcagtgaat ttagctttct 240
cctctctttt gatgctgtaa tttttgttca tcatgttttg ctgtgatgtt acataggtag 300
atgtgtatgt agttttaatg tcacctataa caaatgtgt ttggtagcag attgtccaga 360
aagcatttta aatgaagagg tataaacctt taagggccaa aattctgtat attagattac 420
tcttaaacga aaaaccagct gccgctttta tgtacacata ttacatacga gtaggcagca 480
gactttaaaa ataaaaaaaa cctaggcatg ttgatgttgc aaaatgctgt ataaagctga 540
aacctgttca ttcagtgcga ttgtagttag catgaagctc tcgag 585

```

```

<210> 1483
<211> 418

```

<212> DNA

<213> Homo sapiens

<400> 1483

```

gaattcggcc aaagaggcct aattttttttt gaggatttgt tttacttggg tgtcacattc 60
ataatttttta atcctttaag gagaaaaatg tgcttattaa atttttgggc tctgaatgct 120
accaagtctt agtcatacag aacaatatgc tgcaactgtt tacaattcct aaaactgtaa 180
actcctcaag gacttggagg ctaaacaatga agaataataa attaagttga caatcactgt 240
ctcctgcata aacttgactt cacttctctt gagaaatgtg catctgctaa tccatattta 300
ttacttttta ggggtgggtg aaccataaaa taagatactg ttctttgaat gccttttagct 360
ggtgttattt accagtaatg cttggagaaa gaatccaaaa ttacccccac tactcgag 418

```

<210> 1484

<211> 572

<212> DNA

<213> Homo sapiens

<400> 1484

```

gaattcggcc aaagaggcct aggtttcctc tttttgaatg catctctgta ggctttgtga 60
tttagggaag gatctgttaa actttcaagt tcagagaaaa gtttcttaaa cttcccaggg 120
attttctccc aggtctgcga cagtcgactg acagaagcag tggtgagacc catcacaatg 180
gcaaagaaaag aattcagggtt tctctgggct ttgcagtga cgcgaatttt gatgaatttt 240
ttcaccagct gcactcgctt gcccagctgg ctgcagagca gaatctccgt ggccacccaa 300
agctggacct cattgcatct ctggagcaga aggtcgagat ttgcagtgtg ttcccactt 360
ccctgtctgc tgaacgtgaa gtagatcagc tcttgcctgt gaattgaatt gaatagactc 420
caatcaaaaat tcattaattc cagagcaaga tcccaagtgt tcattcccaa aatcctcctc 480
gacctttgct gtgattcctc attttctgca aatgggttca aagtgtccgc caggtctttc 540
cggtagacat atattcgacc agatgcctcg ag 572

```

<210> 1485

<211> 451

<212> DNA

<213> Homo sapiens

<400> 1485

```

gaattcggcc aaagaggcct acttcttccc ggcccacgga aaaggcgggc gtagtgctct 60
tgcaccgctc cccaggggcc cccatggagc ccttctgccc tttgggtcca gtgtggcccc 120
tggccctctc tgagcctgtt ttgccatatt tcccttgag gctcgatct cgcgggtcac 180
ccttctcccc tttcaagata gtgatgttga tctggggcac ggcgggtccc ggttacatgg 240
aggtagccagg gtcacagcag cgcaagcacc gggaagcagg gagccctgg tctgactgg 300
gcctgtattt ttcatgttgt tcttcagccc tctcggcatg gtccggaggg gacggcagct 360
cctcagtcce ctcccactcc tgctgttccc cctggacatg gggcacgcga ctcaggacca 420
ggccagaggg aaaggcaagg agcagggtcg g 451

```

<210> 1486

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (69)

<400> 1486

```

gaattcggcc aaagaggcct aagcaaatgc aaaaactctt tgagagggtg ggaggggtgg 60
aaggaaacna ccatgtcatt tcagaagtta gtttgtatat attataataa tcttataatt 120
gttctcagaa tcccttaaca gttgtattta acagaaattg tatattgtaa tttaaaaata 180
ttatataact gtatttgaaa taagaattca gacatctgag gttttatttc atttttcaat 240
agcacatatg gaattttgca aagattttaat ctgccaaagg ccgactaaga gacgttgtaa 300
agtatgtatt attcacattt aatagactta cagggataag gcctgtgggg ggtaatcccc 360

```

```

gctttttgtg ttttttttgt ttgtttgttt gtttgttttt ggggggtttt cttgccttgg 420
ttgtctggca aggactttgt acatttggga gtttttatga gaaacttaaa tgttatctgg 480
gcttatactt ggctcttctt ttctccttta attgtaaagt aaaagctata aagcagtatt 540
tttcttgaca aatggcatal gttttccact tctttgcatt cgtcctcgag 590

```

<210> 1487

<211> 596

<212> DNA

<213> Homo sapiens

<400> 1487

```

gaattcggcc aaagaggcct actttttgtct gcttcattct aaaatttaca cagtagacca 60
tttgtcatcc atgctgtccc acaaatagtt ttttgtttac gatttatgac aggtttatgt 120
tactttctatt tgaattttcta tttttcccat gtgggttttta tgtttaatat taggggagta 180
gagccagttta acatttaggg agttatctgt ttctcatottg aggtggccaa tatggggatg 240
tggaattttt atacaagtta taagtgtttg gcatagtact tttggtagat tgtggcttca 300
aaagggccag tgtaaaactg cttccatgtc taagcaaaga aaactgccta catactggtt 360
tgtcctggcg gggaataaaa gggatcattg gttccagtca cagggtgtagt aattgtgggt 420
actttaaggt ttggagcact tacaaggctg tggtagaatc ataccocatg gataccacat 480
attaaaccat gtatatctgt ggaatactca atgtgtacac ctttgactac agctgcagaa 540
gtgttccctt agacaaagt gtgacccatt ttactctgga taagggtttt ctcgag 596

```

<210> 1488

<211> 503

<212> DNA

<213> Homo sapiens

<400> 1488

```

gaattcggcc aaagaggcct aagcctttct ttctgcagct aagggcagag gctgtgccta 60
gggctatacc accactagca tctgtatttg agactgtttc cttagatggg taagagggtg 120
aaaacaaact tagtatcagg ggtccatgaa gcccatggca tcatttttga aaatatttct 180
agttttttag ccaaagcaat tgggttttagt aaaatgagac ttcttcagga gtcaactcct 240
tactgtggac ccattgctta gtgggaatgg aagtatatgt atctatcttg tgtattaact 300
tctgacttat ttatacaaga gcagctatag gagtttacia aagaacttta agttatttaag 360
ttactataaa tttggggatc cttagagtgt cttaaatatg gcaagataca gctcatttag 420
aataaaatct cacatccatt attttaaagg gaatgattgg ggggaaaaac tgggtgaagaa 480
gaaatataaa aaggaccctc gag 503

```

<210> 1489

<211> 270

<212> DNA

<213> Homo sapiens

<400> 1489

```

gaattcggcc ttcattggcct acaaccccaa atattaagcc aagattaaaa aaccacacag 60
ataagaatgg catattttta tctaaatgac ttaattttgt tctcttcttt aatgttatgc 120
tgtgggcaca attcaagcaa cttgacagct attttctctc agcataatga agaccttggg 180
ctactcactg ctcaactcca gtgtgtgtgc tgggaaattg gtatgtcgtt atatcactct 240
gtccttctta cagtcttagt tccactcgag 270

```

<210> 1490

<211> 352

<212> DNA

<213> Homo sapiens

<400> 1490

```

gaattcggcc aaagaggcct acgcctcccc tccgcaccca cccccctgcg ccagagcttc 60
tcccggacac cgcagcctcc tgccgaagaa cccccgcacc ctcttacctt cagccagctt 120
cctcgggtgg gctcagccc agacagccca gcagggtgaca ggaatagtgt gggcagtgag 180
ggcagcgtgg gcagcatccg cagtgcgggc agcgggcaga gctctgaggg cactaatggc 240

```

catggccctg gctctctgat tgagaacgcc cagccactgc cctctgctgg agaggaccag 300
gtgctgccag gactccaccc cccgtccctg gcagacaacc cctccactcg ag 352

<210> 1491
<211> 287
<212> DNA
<213> Homo sapiens

<400> 1491
gaattcggcc aaagaggcct agaagctctc tgtttggaag tggagacaaa gaccaaatat 60
agattcttat tgttgcaact ctataattcc ctccacctta ttttcaccag gcaaaatttc 120
ttcgtttttt ttatagctca gttcagattt cactttattt gtgaaacctt ctcatctgtc 180
cgctagttaa aagaggcctt tctttcattc tcatggtttt gtctattgta aagtactatt 240
attattggtt tatgtatctt tcttcaaccc actgtgattg tctcgag 287

<210> 1492
<211> 275
<212> DNA
<213> Homo sapiens

<400> 1492
gaattcgcgg ccgcgtcgac tccctactcc ccacccccga cccccattca gaaagaagca 60
ctgttgacac ttcaatgcat attctgaact ccaggtcctt tctttgcata catcaagctc 120
tcatectctt gccggctctg tggctctgcaa acccagagag cagatgcttt gctcagcgct 180
cgtaccacgc cagcaccoca catgctctct ttgtacctgg gtttcaaccc acaggtcggg 240
ccctgttaag cccttggtctc cccaagcttc tcgag 275

<210> 1493
<211> 393
<212> DNA
<213> Homo sapiens

<400> 1493
gaattcgcgg ccgcgtcgac agctgatcca agttttatgc tgatttttcc aaagatctct 60
ccctcccttt ccctccataa ctccacaggta gggaaggggg cggcattagg atgggtgttac 120
tgatttggga ttttatgttg ttctgtctgc ttcagcacag gtagtataag gttatattac 180
tgtagaacca cagtgcctat cttgccagca gtgcccgcgc ccacccctcaa agctgagcag 240
gttgagcctt tgccctagtcg gggccagacc cctcagatgg ggatatccct gggggagccc 300
ggtgctgaac cagaagaggc ttctgtgtgc ttctgtctca ggccaccact cctccagccc 360
tttgcccgca catacatgcc ccacaaactc gag 393

<210> 1494
<211> 269
<212> DNA
<213> Homo sapiens

<400> 1494
gaattcgcgg ccgcgtcgac aagatacaat aaaacatact taactgtttt aaaaagtgtg 60
tcataggagc ttttgaacat acaaatacaa tcatacttca atttcagttt atactgaaca 120
aaatacagtt tttctttgaa ttggtagtac ttcagaatct gagtgtctta acagtcattg 180
tgtttagtaaa tttgagtgc tctgtatgc tgggtattca agatgctaag gatccatcca 240
gctttgaaca agacaaggcc cagctcgag 269

<210> 1495
<211> 309
<212> DNA
<213> Homo sapiens

<400> 1495
gaattcgcgg ccgcgtcgac gaggacttaa cttcagggtca gttgctgagg aagaggctctg 60

```

aaggtaatat tagtaccccc ccaactactt tcagctggaa acaagagttg ttggggccct 120
tactgagttc ctacttttaga gtcaagggtt ggccctccccc tgcattctgtc tgcattgtacc 180
tcacaggtga gcagataaca tttttgtgca gctattccct tatgatttcc tctctattag 240
agagaggtgg gagcctatga cagactgcag agtggttgct ccattcttcc ccaccccata 300
gctctcgag 309

```

<210> 1496

<211> 314

<212> DNA

<213> Homo sapiens

<400> 1496

```

gaattcgcgg ccgcgtcgac agccatagaa gaaacttgag tatgcctggg caccctcttg 60
gactctgctgt ctaaattata tatatatattt actgcaggaa agtatacttc gtaaggagta 120
gtttttattt atttgtttat ttggttctca gtggaaccct gtcaaatccc ataaaagcgg 180
aaaaaaacaa aactcattag agtggttttaa attgaatggt tgccttttac atatatattgc 240
tcttcagcat ggttccctaat ttgaatgtta catgttttaga aaaattttca gccagggtgcg 300
gtggctcact cgag 314

```

<210> 1497

<211> 303

<212> DNA

<213> Homo sapiens

<400> 1497

```

gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt ctagacctgc agcctgggtg 60
gcagagcaag tctccatctc acaaaaacaa gcaaacacaa aaaaaataaa caaaatcaaa 120
aacaggaaca tgaaaaactgc ttttggtctc ttgtgtaata gatttacttt attttttttt 180
ctgtttcttc ttcatttttc tttttttctt tctttatcct ttttttgggg gggggcagaa 240
tctcactcag tcacccactg ccctgcagcc tgggtggcag agcaagtctc catctcactc 300
gag 303

```

<210> 1498

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (21)..(23)

<400> 1498

```

gaattcgcgg ccgcgtcgac nnnagtgtgg ggttttttcc ccccaccagg aagtggcagc 60
atccctcctt ctcccctaaa gggactctgc ggaacctttc acacctcttt ctcagggacg 120
gggcagggtgt gtgtgtggta cactgacgtg tccagaagca gcactttgac tgctctggag 180
taggggttgta caatttcaag gaatgtttgg atttccctgca tcttggtgat tactccttag 240
ataccgcata gattgcaata taatgctgca tgttcaagat gaacagttagc tccatagtaat 300
cataaaaatcc actccttgca cagtttgatc tttactgaaa tatgttgcca aaattttattt 360
ttgtgtgtgt agctctcgag 380

```

<210> 1499

<211> 498

<212> DNA

<213> Homo sapiens

<400> 1499

```

gaattcgcgg ccgcgtcgac cttttctagc cttagacaaa tgateccat gttagcctta 60
gacgaagaag ctggctagtc ctttctgtga agctaataca atggtoattt ccagacaaat 120
ttaaaggaaa cactaaggct gcttcaaaga ttatctgatt cctttaaaat atatgtctat 180
atacacagac atgctctttt ttttaagtgt tacattttta tagagatgaa tcagttttgg 240

```

```

aatctaagct gtttgccaag ctgaagctac aggttgtgaa ataattttta acttttggaa 300
tcatactgcc tactgttact ctaaatagaa ataatagggtt ttttttaatg tgaatttttg 360
cctatcttta aacatttcaa tgtcagcctt tgtaacctt aaatacactg aattgaaatct 420
acaaaagtga accatctcag acctttactg atactacaac ttttgttttc tgatggccaa 480
aatacctaata acctcgag

```

<210> 1500

<211> 334

<212> DNA

<213> Homo sapiens

<400> 1500

```

gaattcgcgg ccgcgtcgac tgaagaagtg aaaatgacaa taatgactct caagaggctg 60
gcgatgtgac atggcaaatg tagaactgac ttaaattgaa caaacctca ctgagcacct 120
ctgatgttga gcacctgtg aatactgagc actgaatggg ggagggggag gggagcacgg 180
ggtgagtcaa cctgggactc ggtctcaggg atatgcctac caatagcggg tatcgttaagg 240
catgtaccca aacataacgg atgtaaggca gaaagtgatc ggagaaggaa tgagaaagtg 300
tgcgtgatgt taatgaaaag tctaacagct cgag

```

<210> 1501

<211> 220

<212> DNA

<213> Homo sapiens

<400> 1501

```

gaattcgcgg ccgcgtcgac aattctagcc ctctcagcaa cttaattata aaacaattac 60
ttctaatttc tcacttagtg ttggggaatt ttgcttgga ttttctaggg aaagaggaaa 120
agcagaggta gtggtagctt tgaaaatgtg gaaccttatg ctattatgta taacttcact 180
tcaatatggc ttacagaag acacagtcac ccaactcgag

```

<210> 1502

<211> 165

<212> DNA

<213> Homo sapiens

<400> 1502

```

gaattcgcgg ccgcgtcgac gggcagggtat tgaactctta agtacaaaat tattttccca 60
aagaatttta aaatatacta tcccactatc ttttgcac cagcattagt aattatagga 120
ttattgtctg ttgctactct ttctgtctat cctcagtgtc tcgag

```

<210> 1503

<211> 614

<212> DNA

<213> Homo sapiens

<400> 1503

```

gaattcgcgg ccgcgtcgat gtacatatatc ataagcatgc acacagacag acataaaaaat 60
gataggatca tataagacat tgtatagact gttttatgat agggtaatac acttttcttt 120
tctttttctt ctttgtccag ctcttctgtt ctttatccat atcatactct atccctactc 180
aaggaaacct agcaacatgt ttatagttcc atatgtctca ttatgtctat atgtcattta 240
catggtattt tatatacagg gtttacacat ttatagtaaa cgatctttat atagttttata 300
caatatctgt ttttcttttc tctgcaatac aaacgtgttt catatccctc aaacacaccc 360
acaccctca cttacacatg tgttatcact gtttgctttt gtaaacctgt gttcaacgta 420
tacacattaa tcatttaagc atacctgtg gaaatectgc caacttgact actgtgcctc 480
caatttcttc ctttttatcc catcataata aacctggcaa taattgatc aaccatatgc 540
acattgatat cacttatgct gtttgtttat ttttactact acaaacatgc tacaacaaag 600
ttccgggact cgag

```

<210> 1504

<211> 329

<212> DNA

<213> Homo sapiens

<400> 1504

```

gaattcgcg cgcgctcgac aggtaagtca ttttaatttca ctttttcaggt ttgttttggg 60
atttgtctgg gggcagattg ttaaggcctg ttttagaatc agctaccctt gcattgtaaa 120
tggggcttct aagagcacca gatcgtgggc tcttggtcc cggcaaggca gagctgatga 180
gagaagggtcc ttgcccgcag cactgcaggc aggatgggtat agtttggtgg ttctttgctg 240
tgtgtgtttc tctgtgctgg gtgagggaga cagctgggag ttggccttta tccagtgcc 300
gagagagctg tggaagggat gagctcgag 329

```

<210> 1505

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (23)

<400> 1505

```

gaattcgcg cgcgctcgac agngaaatct gcctcctcca tgtctcaagc cacgtggaat 60
aaattgtgga aagacctgtg ctgtctggct tgtgccttta cacatgctgt tatctctacc 120
tcaaatgtg tcttccccca ctggctaacc ctgttatcc tttataacag ctccagaagt 180
gcctgctcaa agacactttc ttggcctgaa ttagaactgc cctctcacgt gctacttcca 240
tcacagatct taccatctat tatattatta catacacaca cacacacaca cacacacaca 300
ctcgag 306

```

<210> 1506

<211> 353

<212> DNA

<213> Homo sapiens

<400> 1506

```

gaattcgcg cgcgctcgac ccttttttca cacaggtgat agaaatcctt ctaactcctt 60
gattctttca ctttatctta ctggctctta catgtcagaa cacagaagt gtgttttgtt 120
tcgttttgtt ttacagagct gtggtaagta ttggatgggc cattgttttg atgttttcga 180
tgttctgtcc ttcttagat ctattcgagg gcatttgggt tgtctccaat ttgttggtac 240
ttcaaacaat ggtatactca atacagtgtg ttagggtagg gattttttaca gaagaaacta 300
aacagcgtt agaaaattat ttttttacat taactcaacc agttattctc gag 353

```

<210> 1507

<211> 331

<212> DNA

<213> Homo sapiens

<400> 1507

```

gaattcgcg cgcgctcgac ggaaaatgaa gctcttaaag atatgctgta aaacagccac 60
agagttcaca acaccttata tcatagggtg tcatgactcc taaaagtctg taagcccaag 120
aagacaagac catatctttt tcttagttaa tcatgatgga agtattgtgc agatttttaa 180
actagcttta ttgtggttta attgacatac aataagttgt atatatttga agtatatagc 240
ttgataagtt ttgatatgtg tataccaata aactcatgac gacaatcaga taatgaacac 300
atccaagacc ctcgagtaaa gttgactcga g 331

```

<210> 1508

<211> 229

<212> DNA

<213> Homo sapiens

<400> 1508

```

gaattcgcg cgcgctcgac gaggtccccc ttttttctaa atttctctgt gtgcttttct 60
ccccctgcta ctttttccat ccgttctctt tcaactcttg tctctttgca agtccctaaa 120
gtatcatcca ttttgccgtg tatttatggg tctccctcat tcttttctcc tcagtttttc 180
cttttctctg ctgtcttggg gagcttctgc atgtgacca attctcgag 229

```

<210> 1509

<211> 551

<212> DNA

<213> Homo sapiens

<400> 1509

```

gaattcgcg cgcgctcgac ccaacagatg agtctttttg gtactagata ggaagagtg 60
aatgtcctgt gttgatatag aattgtttta gttatctgtc cctgtcttaa tttctctgca 120
tatttagtgt aattatcttc ttgatctatg ttgtcttagg atgcaagggg gaatttgagc 180
atccttctct caatcttttc ctctatcag agtctcagaa tccactcttc tatttcatt 240
tgactaaatc ataggcatct aagagggagc cactctcgcc cctactaac tagcagaata 300
agactgacca gtttccaaact aatcaattac ttgagttacc atgtccggca gatttctact 360
ttgtctgata tctcaactct gttgccttgt tcatttccag caccactctg ccagtcagg 420
ctttgatccg cacatagctg gactaaactg tcatctacct aatgtggctc attctccata 480
gcactatcag attaatcttc ctaatgtggc acttgacccc tactacttct tgcttaaagc 540
acaacctcga g 551

```

<210> 1510

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1510

```

gaattcgcg cgcgctcgac gcttttttaa aaaatttcag aactgtgtac tgtgatgaaa 60
ctgctgacga atcctcagga attaatgtgc atcaaccac tgcttttgct cacaagttac 120
ttcagctctc tggagtgtct ctcttctggg atgagtttct tgcacagcc aaatcttccc 180
cagtggttct aactgcacca gtggaaactg agccaaagct ctcacctage tggaacccca 240
aaattattta tgagccacac cccacagctc gag 273

```

<210> 1511

<211> 291

<212> DNA

<213> Homo sapiens

<400> 1511

```

gaattcgcg cgcgctcgac aattatcata ttttccataa agagagcatt gatttcatcc 60
attggcatat tgagatgctt tctgtttga cattggtcac agaattttaa aggaaaaaca 120
acattactgc acattcagga atcagaaata gaagtaaagg tcaggatctt aaagggaaac 180
ttgacaggat atcaggcctg cctttaaaaa aattcagaca tgataagttt actaccaatc 240
attttttcaa taacaacaat aatatattta tattttccca tggaaactcga g 291

```

<210> 1512

<211> 229

<212> DNA

<213> Homo sapiens

<400> 1512

```

gaattcgcg cgcgctcgac cgcgtttcag cgaagtcgca cgtgaaggat agcagtggcc 60
tgagaaagac ccagtcattg cagcctccag catcagttca ccatggggaa agcatgtgtt 120
caaagccatt ctgatggctc tagtgccctc tctctctc cactcagcat tggcccagtc 180
ccgtcgagac ttgcaaccac caggccaaca gaagagagaa accctcgag 229

```

<210> 1513

<211> 104

<212> DNA

<213> Homo sapiens

<400> 1513

```
gaattcgcg cgcgctcgac ccgccaccga aaatctgttc tgacatgaga atgttcacaa 60
aagacagcac ttctcgactt ctgctgataa gcttgggtct cgag 104
```

<210> 1514

<211> 357

<212> DNA

<213> Homo sapiens

<400> 1514

```
gaattcgcg cgcgctcgac aaatcttatt gttgttttaa aaacctgtgt tttttatatg 60
agggtttaaaa aatccatatt ttctattact cctcttctag gttctgagtc ttctggtagt 120
gtagggtcat ctacaggctc tctttctcac atccagcagc ctcttcaggg tacagctctc 180
agccagtcct ctcatggcgc acctgtcgtc tatccaaactg tcagcactca tagttctctt 240
tcctttgatg gtggcctaaa tgggcaagtc gcattctcta gcactagctt ctttttgcct 300
cccttggaag cggcaggcat accacctggc agtattctga tcaaccactt tctcgag 357
```

<210> 1515

<211> 237

<212> DNA

<213> Homo sapiens

<400> 1515

```
gaattcgcg cgcgctcgac ggtatttgtc tactgtatta acttcgacca tcccaataga 60
aacgtgccaa taaatcattg atgatcttta attgctgcct gtacgggtgca ataataccaa 120
tatcagaggg actgcattca gccttaacaa aaatggaggt taggaaaact atgagtttgg 180
cttctgttac attgctcacc accacctttt tcaacttgtt ctggcgctgg actcgag 237
```

<210> 1516

<211> 543

<212> DNA

<213> Homo sapiens

<400> 1516

```
gaattcgcg cgcgctcgac cgaggacaga agatagaaac aagagtttga ggtttggctt 60
tgattagaaa cttgggtggc tcaaaagaaa cttaccagaa gcacagtagc tgtaggtttg 120
gggtcccaaa agggtagcct gagcttttta gggctaaaac tgggaaagaa acacctaaac 180
tgtgtcttaa actaaattta tgactgagtc tctgccatgt ggtgatttat agtatgtgct 240
ttcagattcg cctacttta atcatgaaag cttcattcta tagaccacca cctgtgtgat 300
gtccttggtc tcaaaagacga tttaaacttg gactgttttt ccagtaaaa gagatttgct 360
ttcagaatgt cgagtgtatt cataacggat ggttcttcat tacttacaaa tttttgtaat 420
taatcttctg atgaaacaaa aagctatgat gttgctgtta atgtgtattt gatagatatt 480
ggttgacaaa tgcaggctaa atgggatgtg gcaatacttt ggggccagat atagaggctc 540
gag 543
```

<210> 1517

<211> 431

<212> DNA

<213> Homo sapiens

<400> 1517

```
gaattcgcg cgcgctcgac caactgcag gctccatttt ttcaggccat ccataacca 60
tggggtctct gattctcttt ttctttacat ccatgtttct attcattagc aactcttgct 120
agtatagctt tgaaaataag ttggattatt tctaaactacc tggtactgct cttgactttg 180
gacaatatgt tatcaaccag tgaccatttg aaagtataca aattatttga cttacttgag 240
caaaatcttc ccgtggcttc tctctctacc cggaatccag cttgaagaat aaccactacc 300
tacatggccc tgcgcgctgc ggtccggac gccatcttgg cctcagctcc caaagcacct 360
tcccctctca ccgtgctcca gctgcgcgct gtgctctctc ttactcttac gggatacccc 420
```

acccccctcga g

431

<210> 1518

<211> 361

<212> DNA

<213> Homo sapiens

<400> 1518

gaattcgcgg ccgcgtcgac gggagggtcaa agctgcagta agtcaagatt gcaacgctgc 60
actccagcct ggggtgacaga gtgagaccct gtctcgaaaa agaaacatac ataaggaata 120
tattgtctca gatatactaaa gaatccagga gtacacctgg tgttgccac tgggtgatgt 180
gggtgggaaa caatctttct ccattctctta ggtctactgt tttctgtgtc tctccattt 240
taagatagac tttgttaagt aaaagtttac tgtttccagt ggaaggaaat tgctcttttc 300
caaacagtac caataaaagt tccaaggctg actcatgggt ccaactatag cagtgcctga 360
g 361

<210> 1519

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1519

gaattctcga gtcaaatata ccaagtcgga ctctgcgtta atcgaagtca ctgagaccat 60
ttgcaagagg ctctctggatt atagcctgca caaggagagg accggcagca atcgatttgc 120
caagggcatg tcagagacct ttgagacatt acacaacctg gtacacaaag gggccaaggt 180
ggatgatggac atccccatg agctgtggaa cgagacttct gcagagggtg ctgacctcaa 240
gaagcagtgat gatgtgctgg cgacgagtct cgag 274

<210> 1520

<211> 687

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (21)

<400> 1520

gaattcgcgg ccgcgtcgac ntacgcctgg gcactctgag ttcataaggaa gatagttaaa 60
aagaaaaatga gtataggatt tgaactaaaa ataactgggt acttgaagat tgacttgcaa 120
agtcacagttc attattttga cagatgcatt tcaagtagag ttgccagaca aaatatagga 180
ttttgagtta gattagaatt tcagataaac agcaaataat tgttttaata taagtatgtc 240
cgccaaactg tagatatact gaaagctatt gctgtttatt gaatcaaaat ttaattgggg 300
gtctgtgaatt cagttttgcca aatctggctc ccctagtctc acacaagtta atttcttgca 360
cattgtgata taggaggctg gataccatag atacggtaga gttgtacatt atccaggctg 420
cctgagtcctc aaaccagtat ccatttctaa ggtcttatga ttaggataaa agattttcta 480
cttcagcaca aagtgccttt tgaaaatttg tgatgattat ttctggaaat ctgtcccatc 540
ttagcattgc tagagttggg ttatcatgag acataactca agagaaatta gctatactga 600
gatcatttta tcaaaggtag tcgtgacata ggcaatttga tatgtcccaa gtctgcctcc 660
aatgtcaggt gaggttcccaa actcgag 687

<210> 1521

<211> 132

<212> DNA

<213> Homo sapiens

<400> 1521

gaattcgcgg ccgcgtcgac gagattgtgc cctcttttctc attctctctcc aatagatctc 60
atgtcttaaca ctactetaac tttgtctccc tctgagacca gcatgaactc cagttcttctc 120
tgccctctcg ag 132

<210> 1522

<211> 324

<212> DNA

<213> Homo sapiens

<400> 1522

```
gaattcgcgg ccgcgtcgac gtgatcttca gttttcactt gcacctttga atattctgcc 60
atgtttgaat tccttagaat gatcaagcat cttttttgtt gttgggggtt gggtttttgt 120
ttggttttgt tttgtttgag acagagtttt accctgtcac atgggctgga gtgcagtggc 180
atgggtcatgg ctactgcaa ccttgaccat ctgggctcta gtgatctca gcctccccga 240
gtagctgaga tcacaagtgc taattttgga aaaattgttt gtagagacag ggtcttacta 300
tgttataagc ccaggcctct cgag 324
```

<210> 1523

<211> 373

<212> DNA

<213> Homo sapiens

<400> 1523

```
gaattcgcgg ccgaggcaag aagttcccggt gtatacagat tctgaaccca ggcaagaagt 60
tcccatgtgt tcagaccctg aaccagggca agaagttccc acatgtacag gccctgaatc 120
caggcaagaa gttcccatgt atacaggccc tgaatccagg caagaagttt taatacggac 180
agaccctgaa tctaggcaag aaattatgtg tacaggccat gaatccaaac aggaagttcc 240
catatgtaca gatcctatat ccaagcaaga agactccatg tgtacacacg ctgaaatcaa 300
tcaaaaatta cctgtagcaa cagattttga atttaagcta gaagctctca tgtgtacaaa 360
ccctgaactc gag 373
```

<210> 1524

<211> 242

<212> DNA

<213> Homo sapiens

<400> 1524

```
gaattcgcgg ccgcgtcgac tcgagattta ctggcaactg ttcttttccc atcaaaaatc 60
agtgaatggt tgctgagtat aaatgctgct tccttaaac accctgtcgt ttaggatcaa 120
ctttaccctgt accttttttc ctttccctcc ttgccacct aggtgcaaat ctgaactcag 180
tgctgtcttc ttccattttc tcgtctctct cccctcttcc cccatcccg gtttgctcgc 240
ag 242
```

<210> 1525

<211> 527

<212> DNA

<213> Homo sapiens

<400> 1525

```
gaattcgcgg ccgcgtcgac cttgaattct aaaagccaga gctggaaata accgaaaagt 60
cttaagggaag tgtgtgtgtg tggctgccaa taaaataaag ctaatgagt atgtagaaga 120
gaattctagc tctgaaagt tctgttctgg tcggaagctg cctcaccgca atgcttctgc 180
tgtagctaga aaaaagttat tacataatc tgggaagtga acagagctta aagtcagaaa 240
ttgaagaaga ggagctaaaa gatgaaaatc aaccattacc agtgtccagt tctcacactg 300
ccagagcaa tgttgatgaa tctgaaaaca gagactcaga gtcagaaagt gatttgcggg 360
tagcccgga aaattggcat gctaattggt acaagtccca tactccagca ccttcaaaga 420
caaaatttct taaaatagag tcttctgagg aagactctaa aagtcatgat tcagatcatg 480
catgtaacag aactgctggc ccatcaacgt ctgtgcagag cctcgag 527
```

<210> 1526

<211> 388

<212> DNA

<213> Homo sapiens

<400> 1526
 gaattcgcgg ccgcgtcgac ttcacatcgc tactgttatt atgctatttg ttagcaccat 60
 tgccaatgtc tggttggttt ccaatacggg agatgcatca gtaggtcttt ggaaaaactg 120
 taccaacatt agctgcagtg acagcctgtc atatgccagt gaagatgccc tcaagacagt 180
 gcaggccttc atgattctct ctatcatctt ctgtgtcatt gccctcctgg tcttcgtgtt 240
 ccagctcttc accatggaga agggaaaccg gttcttcttc tcaggggcca ccacactggt 300
 gtgctggctg tgcattcttg tgggggtgtc catctacact agtcattatg cgaatcgtga 360
 tggaacgcag tatcaccacc tgctcgag 388

<210> 1527
 <211> 161
 <212> DNA
 <213> Homo sapiens

<400> 1527
 gaattcgcgg ccgcgtcgac gagctagggt acgggtgcag gcaggaaaca gaaacaacac 60
 agctacacat tcttgagata actctggtct ttatactgaa actaaccaac taagaaaatt 120
 attcaatgca ttatacatcc ttaatcccca caacactcga g 161

<210> 1528
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 1528
 gaattcgcgg ccgcgtcgac atcctaagca catacgcata tttaaactgg caccaagctg 60
 ttaattatgt taatgccttt atggcacaaa aatgtaaaat ttactattaa ctggggggct 120
 gacctaaaga gctggcaa atctccctatc ctccctatc ttgctatctt gctgggcttg 180
 caatgccagg gcctacttag aatagccaca gccacacatg agcatcatgg gagacttctg 240
 ggggcaactt cagcttcttc ctctaaaatg attcccgact ccagatcct cgag 294

<210> 1529
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (424) .. (427)

<400> 1529
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 agctcagctc cagcaagttg aagctgcatt atctggaaat ggagaaaatg aagatttgct 120
 aaaattgaag aaagatttac aagaagttat agaactaacc aaagaccttc tgtcaactca 180
 acctcttgag acgcttgcaa gtccagacag ttttgctctt actcaacctc ctcatctcatg 240
 gaaagtagga gacaagtgtg tggcagctctg gagtgaagat ggacagtgtt atgaagcgga 300
 gattgaggag atagatgaag aaaatggcac cgtgcaatc acctttgctg gttatggcaa 360
 tgctgaagtg actccactgt tgaacctcaa gcctgtagaa gaaggaagga agggcaaagga 420
 ggannnttg caacaaaccc atgaacctcg ag 452

<210> 1530
 <211> 369
 <212> DNA
 <213> Homo sapiens

<400> 1530
 gaattcgcgg ccgcgtcgac ctgaagtaac caacaactag gtctttgtta gctaagcagt 60
 gtataagtta ttaacaaaac tcaaaaacag ttaactgttg ttggaaatat tcattctaaa 120
 aatcaattta tgaataaaaa aaactcacca aaaaaatcat caagtaagta gaggagacat 180
 aattggctga aaataaacta ggagagaaaa aacccctaaa accccctaa aactccaaat 240

```

cctctttttt tgattgttca tttttattgc tttgtttatt ctttcatggt tcaaattcct 300
ttagtatttt ttttaattgc aaaagcaatg agtgaggctt tcgggaaaaag cagaaacgtt 360
gggctcgag                                     369

```

```

<210> 1531
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 1531
gaattcgcgg ccgcgtcgac ctcgagagtt tcctttgaga acattatact attggctcta 60
gtctccaaac caataaaaaa ctaaaacttg tttccaagac tgggaggtaa agtaggctta 120
taaaacaata cagcaaaaaga aagccaagtg gcctaattgt ttccagtgtg cttgccatct 180
tagcatggtt actttccaga tgtcactcga g                                     211

```

```

<210> 1532
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 1532
gaattcgcgg ccgcgtcgac gtcgattgaa ttctagacct gccacatcaa tctcaccgggt 60
gattacaaga tttccagaag ccctgaacaa ttcaatttca accatgcctc tagaacatcc 120
tctcttcaca aaaaacccaa ctttatctgc tcgtcccatg aaagcagggt ttccagctaa 180
accaaggcaa atggcacaca caaaactcga g                                     211

```

```

<210> 1533
<211> 447
<212> DNA
<213> Homo sapiens

```

```

<400> 1533
gaattcgcgg ccgcgtcgac caaggagact aagatgcaga aaccccaactt acctttatct 60
caggaaaagt ctgcaattaa aaaagctagc aaccttcaga aaaataaaac cgctagctcc 120
acgacaaaag agaaggagac aaaactacct ttactttccc gtgttccaag tgctgggtcc 180
tctctagtac cattaaatgc taaaaattgt gctcttcag tttctaaaaa agataaagag 240
cgttcctcat ctaaaagaatg ttctgggcat tctacagaat ccaccaaaaca caaggaacac 300
aaagcaaaga ctaataaggc cgattctaag gtatcttcag ggaaaatttc tgggggacct 360
ttgcgctcag aatatggcac tcctacaaag tctcccccctg ctgctttgga agttgtgcca 420
tgtatcccaa gccatgcagc actcgag                                     447

```

```

<210> 1534
<211> 150
<212> DNA
<213> Homo sapiens

```

```

<400> 1534
gaattcgcgg ccgcgtcgac gtgggaaagg agggaaagaa ggaagatttt ctgatgaagc 60
catgcctgag aggtaatgac aactaggagt tagtcagatt agtgcttggg tgaggcctaa 120
gaaggcactt atgaagctga gaagctcgag                                     150

```

```

<210> 1535
<211> 253
<212> DNA
<213> Homo sapiens

```

```

<400> 1535
gaattcgcgg ccgcgtcgac ctttagagac caatttgctt gaattttaaa atcttctctac 60
acacatctag actttcaagt ttgcaaatca gtttttagca agaaaacatt tttgctatac 120
aaacattttg ctaagtctgc ccaaagcccc cccaatgcat tccttcaaca aaatacaatc 180

```

tctgtacttt aaagttattt tagtcatgaa attttatatg cagagagaaa aagttaccga 240
gacagaactc gag 253

<210> 1536

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1536

gaattcgcgg ccgcgtcgac gcaacatggc gtccaggctc aagcggcgtg ccgtggaaaag 60
tgggggttccg cagccgcggc atccccagc ccagcgcgac gaggaagagg aaaaagaagt 120
cgaaaatgag gatgaagacg atgatgacag tgacaaggaa aaggatgaag aggacgaggt 180
cattgacgag gaagtgaata ttgaatttga agcttatccc ctatcagata atgattatga 240
cggaattaag aaattactgc agcagccctc gag 273

<210> 1537

<211> 347

<212> DNA

<213> Homo sapiens

<400> 1537

gaattcgcgg ccgcgtcgac cctaaaccag cgaacaccag tgcactcacc attcgctctc 60
caactactgt cctctttact agtagtccca tcaaaactgc tgttgtaccc gcttcacaca 120
tgagttctct aaatgtggcg aaaatgacaa caatatccct cacaccagc aacagtaaca 180
ccccctttaa acattctgcc tcagtcagca gtgctacagg aacaacagaa gaatcaagga 240
gtgttcacaa gatcaagaat ggttctgtcg tgcgcttca gtctcctggg tccaggagca 300
gcagtgcggg gggaacatct gctgtggaag tcaaagtgga tctcgag 347

<210> 1538

<211> 287

<212> DNA

<213> Homo sapiens

<400> 1538

gaattcgcgg ccgcgtcgac ctggctgatg gagcacgaag acgaccccca tgtggacgag 60
ccttttagaga ctcccccttg acatatcctg ggacgggagc ccacttcctc agagcaaggc 120
ggccttgaag gatctgggtc tgcctgcgga gaagcaaac ccgctttgagt gaagaggaaa 180
gacaggaaaca aactaagagg atggttgagc tgggtggcca gaagcagcg gagcgtgaag 240
aaagagaggt acgggaggca ttggaacgtg aacagcaaca tctcgag 287

<210> 1539

<211> 298

<212> DNA

<213> Homo sapiens

<400> 1539

gaattcgcgg ccgcgtcgac cgttgaaatc agcattcaga gcaacttcca gccaggaatg 60
aaattggaag tggctaataa gaacaacccg gacacgtact ggggtggccac gatcattacc 120
acgtgcgggc agctgctgct tctgcgctac tgcggttacg gggaggaccg cagggccgac 180
ttctggtgtg acgtagtcac cgcggatctg caccctgtgg ggtggtgcac acagaacaac 240
aaggtgttga tgccgccgga cgcaatcaaa gagaagtaca cagactggac aactcgag 298

<210> 1540

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1540

gaattcgcgg ccgcgtcgac ggagagagca ctgacagggg aactcccatt tataaaacca 60
tcagatctca tgagacttat tcaataccat gagaacagca tgggggaact gcctccatga 120

```

ttcaattatc tccacctggc cccacccttg acacatggga attgtaacaa ttcaagatga 180
gatttgggtg gggacagagc caaaccatat aattcttccc tggccctccc aaatctcaag 240
tcttcacatt tcaaaaagcaa teatgccttc cccaaagtcc cccaaactct tatttcagca 300
ttaactcaaa attccatagt ccaaagtctc atctgagaca aggcaagtcc cttccaccta 360
tgagcctgta aaatcaaaag caagtgagtt attttctaga tacacaggga tacaagcacc 420
tcgag                                           425

```

<210> 1541
 <211> 347
 <212> DNA
 <213> Homo sapiens

```

<400> 1541
gaattcgcg cgcgctcgac ttatacttct gctacctgtg gtctttgtct ctttaccctg 60
aagacctctt tgcttggtcc acttaggtcc tgccctccaa ctctcctgcc ggtgtcagcg 120
gtgaccttta ttcatgggtc cagtggacaa cctaatgctg tctttctgca ttctacaact 180
tcatttggca gtgttgactt ttccccactc tttgaaacac tcaactgctgg ttctcttggc 240
aggatgttct tctttccctc cccccacccc ttttctttgc cctttccttc actgtctgtt 300
tcgttttttt tcttttacct agcactgaaa cctgggtgtt cctcgag 347

```

<210> 1542
 <211> 282
 <212> DNA
 <213> Homo sapiens

```

<400> 1542
gaattcgcg cgcgctcgac cggaagaaaag tgcattggtg cagcttgctt gaaaataaca 60
ttgcttttgc ttgttacta ctctacatta ggggagaatt tcgatcgcca ggccagcctt 120
cggcgggtct taatttacac agacactctg gtaagacgac cgaagaaagt caaaaggaga 180
aagactatta caggagtccc tgacaacata cagaaggagc tagcatcagg cactggccaa 240
gatgatgctg atggccactc agtgtacacc cctgatctcg ag 282

```

<210> 1543
 <211> 292
 <212> DNA
 <213> Homo sapiens

```

<400> 1543
gaattcgcg cgcgctcgac agcgttccct ttgctgcctc caccaccgtc actgttctct 60
ttccaaggag aacatcagtc ccattggatt gttttcttca ctagttagatt cccagggctt 120
ggagcacaga aggcacccaa taaaagtcac ctgaatgagc caattccttc tcccatttct 180
catgtggcta tttaaagcaa ctgtctactt tcttcccatc ttcaacctcc cccacctctc 240
agatgcctcc tacctcagag gagaaaataa atgtactctt cttcaactcg ag 292

```

<210> 1544
 <211> 218
 <212> DNA
 <213> Homo sapiens

```

<400> 1544
gaattcgcg cgcgctcgac gtcaggggaa ctaaaaaaga aaaaaacagt cttgcttgca 60
gcagggtgtc catgcactac tttcttcaat ccttttgtgc catagtggga atctggacct 120
ttgagtgttg cacatgctgt gttagcacaca ttgggcagga tctctatggg ttctctgaac 180
atgacctga atgtgttagc tgtcccatca cactcgag 218

```

<210> 1545
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 1545
gaattcgcgg cgcgctcgac actgaggagg tttgaggcgc gcgctctggg caggaagcct 60
ccccagcttt ctgaggatga tatctggcta aaaagcgagg gagacaacta tagtgccacc 120
ctcctggagc ctgctgccag ctctctttcc ccagatcaca aaaacatgga aattgagggtg 180
tctgttgagc aatgtaaaag tgttcctgga atcacctcta cccacatcc catggacccat 240
ccctccgctt tctattcacc cccgcataat ggctccttta ctgacacca cgaatccctg 300
gataatgatg ttgccagaga gatccgctat ctgatgagg tgctagaggc caactgctgt 360
gattctgctg tggatggaac gtacaatgga acatcctccc cagagcctgg tgcagtgggt 420
ctggtggggc gcctaagccc cctgtctctg ag 452

<210> 1546

<211> 449

<212> DNA

<213> Homo sapiens

<400> 1546
gaaattcgcg gccgcgtcga ctttgatttt ggtttgacgg cttctggagc ctctcagaga 60
tggatggggc caaatactgc acccaggctt ccccatcaga atcagcacag acgcacctgc 120
atctaccatg tagtcttcca cagtatcctc tgggtgggatg ctgggtggct gccaaatttt 180
cactaaaagg aaccatgcgg agaagcacc tgggtctgtg cctccctgtg ggtatagtcg 240
gtgtttatcc agaactagaa gatacaatag caaggaaga tacaatagca agcattgtcg 300
aatgctacag tgtaacactc tgaggctttt tgtgaatgaa ttcatttagt ccttgtaaac 360
ctctgggggt agctcaccat tctgtctcca ttccacagat ggagaatgag gcacagagaa 420
gttaagtaac ttgcccactc tcaactcgag 449

<210> 1547

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1547
gaattcgcgg cgcgctcgac ctgtggatca tttagctgca gtccctcttc ctacaacctt 60
gatttagatca tataagttcc agaaggcat gccaccacga attcttctta atactgatgt 120
agcccccttc atcagtgaat ttactgcttt tcagaatgta gtccctggctc tcgag 175

<210> 1548

<211> 211

<212> DNA

<213> Homo sapiens

<400> 1548
gaattcggcc aaagaggcct agtaaggaaa aaaatctggg ctgttagagt gaaaaagtgt 60
gtttttatgtc aattgtgaaa ggaaaatgtt aggagtatgg tttttaaact tgggcttcat 120
tttaaaattt ttttttttaa acccagttat ttcaacttgat ttgctagctt cagagaagag 180
atccgaatct gtgccagcg ctgggctcga g 211

<210> 1549

<211> 240

<212> DNA

<213> Homo sapiens

<400> 1549
gaattcggcc aaagaggcct agtgcaggca ctgttttagg tagagtgtac aaagaaacca 60
caagtaatcc tgatgggttt acacttaaag aaaacctgtt gggtatgcag agaacaggat 120
aaaaattata aaataagaga ttggaatatg aagtattttg ccttaatat tttcaatttc 180
agctctcttc tctctcagtg tctctctctc atgtctttct ctcaagcagg ccaactcgag 240

<210> 1550

<211> 210

<212> DNA

<213> Homo sapiens

<400> 1550

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gaattcggcc aaagaggcct acgattgaat tctagacctg cctcccgcct cattgcctgc 60
cctttccctt ctcagtgagc ttctgcaaca ctagagttct ttgtgcacc tatatacatg 120
agacaatttc ttgccttgag gcctttatgc atggtgtttt tctgttcctg gtatgccttc 180
ctcccttcct ttgtctggc taagctcgag 210
```

<210> 1551

<211> 244

<212> DNA

<213> Homo sapiens

<400> 1551

```
gaattcggcc aaagaggcct aagattgaat tctagacctg cctggccttg tatgttttaa 60
gagttttaca attttatctc ttatgcataa atctgtgac catttgaggt taatttttgt 120
tttgttttgt tttgtttgtt tggttttttt tttggagatg gagtctcact ctgttcccca 180
ggctggagta cagtgtacag tggcacgac tcagctgacc acaacctctg ccccccattc 240
cgag 244
```

<210> 1552

<211> 254

<212> DNA

<213> Homo sapiens

<400> 1552

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gaattcggcc aaagaggcct agggagtggg actaaggatc aagtatactg ttaaaagaaa 60
acaaaaaccc aagcatgagg aaggcgggtg ccacgtctat gtgggcttcg tgctgtgggc 120
tgctgaatga agtcatggga actggagctg tcagggggcca gcagtcagca ttgacaggag 180
ccaccgggtc attcagattt acaccaaacc ctgagttttc cacctaccca ccagcagcta 240
cagaagagct cgag 254
```

<210> 1553

<211> 186

<212> DNA

<213> Homo sapiens

<400> 1553

```
gaattcggcc aaagaggcct cccgacaaga gcaaaactca gtctcaaaaa aaaaaaaaaa 60
aaaaaaaaaa tagaacattc catccacatg tccatatcca ctaactggat ctttgttttg 120
ataatcctct tccctttctc tgcaggttta ctccagttat atccattttc acctgagcca 180
ctcgag 186
```

<210> 1554

<211> 239

<212> DNA

<213> Homo sapiens

<400> 1554

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gaattcggcc aaagaggcct aaacagatgt taaaatattc agtgaaagt ttattggaaa 60
aagggaattga gatataataa tgagattttg tgaaattgaa ggagaaaaatt taagtgagtc 120
tttaaaatat attctgaatg aaaactgtat tgaggattca tttttgttcc tttttttct 180
ttttctctt tctctttttt cttcttttta atagtcctagt tttaggcagc cactcgag 239
```

<210> 1555

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1555

```
gaattcggcg ccgcgtcgac ccagatgaga ctgtggctgc agccagtgt ttgctggtaa 60
cttgtgagag atgctgagcc acaggaccta gctaagtggc atccatattt cagatccatg 120
```

gtaactgtaa gttagtaaac tttgttgttt taagccacta aggtttgggg taatttgta 180
 tgaagcaata aataactcat atgccaaacta tgtgccagge actattcttg gctctgggga 240
 caactcgag 249

<210> 1556
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 1556
 gaattcggcc aaagaggcct aaatttatat caggctctttt tttccccctc taattctgag 60
 tttttgctag gatagatctt tcacctctta gaaaatcact ctatctgac tttaaatccg 120
 tgagttggaa tgagaaatat tccacttgct aaaattttct tcagcttttt aactttttac 180
 aatctcaaca ggtcaaagge agatctcgag 210

<210> 1557
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1557
 gaattcggcc aaagaggcct actatatctc atacaattag atttgttctt gctcaagac 60
 ttcagtctga ttggatgttg atgctgtatt ttgcacatac tcatttgact gtgacagtca 120
 ccattggggtt gcttttgatt ccaaagtttt caccattcaag caataaccga cgagatgata 180
 ttgctacaga agcatatgag gatgagctag acatgggccc atctggatcc tacctgaaca 240
 gcagtatcaa ttcagcctgg agtgagcaca gcttggatcc agaggacatt cgggacgagc 300
 tgaaaaaact ctatgcccga ctggaaatat ataaaagaaa gaagatgac acaaacaacg 360
 ccctcgag 368

<210> 1558
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (19)..(23)

<400> 1558
 gaattcggcc aaagaggcnn nncagaggg aggctgactc aggggtttgga atggactgta 60
 tagcacagtg aggccaggg gctttgaact tctcctaga tttcagttct gaagccttca 120
 cttactggct gagagacttg ggcaaattat ttaaccttcc tgtgagtatt ctcacgata 180
 aaatgggagt actgacagta ctgtatctcc tcagaggatt gttgcaaaga ttagcttcag 240
 taatgtgcac agagtactta ggacaatacg aagtgtgcag taatacattg ccattaaaaa 300
 gagatctcgg gtgtccgcgg gttgccgaat ggagctgagc atcttgatgg aaccagggat 360
 ctcagggtga agactgaagc cctaggctat ggcggaagtt ggggtgcctga agtacaagtg 420
 gaaatatgcc aactgaaccc taaaccgtcg attgaattct agacctgcct cgag 474

<210> 1559
 <211> 128
 <212> DNA
 <213> Homo sapiens

<400> 1559
 gaattcggcc aaagaggcct aattgaatgt taccagagge tttttctcca cctatggaga 60
 taatcacatt ttttgttctt cattctgttg atttatcatg tttattgttt tgtgtatgtt 120
 ccctcgag 128

<210> 1560
 <211> 250

<212> DNA

<213> Homo sapiens

<400> 1560

```

gaattcggcc aaagaggcct agctctctat acagatcttc caaacagaca agcccttcag 60
agccaagatt gcttcaatca ccagcatgtc agaaatagca tcaccagctg cctgggttaa 120
caagtcaata atgttttcaa gcattcttagc agcttttctt ttcttatctt ccagttgttc 180
tgctgattgt tttatcttca tttcaacagc tgtactaaac agtgcagtgc catgcccatt 240
tgctctcgag                                     250

```

<210> 1561

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (21)..(22)

<400> 1561

```

gaattcggcc aaagaggcct nntgcagagg tgcttttatat aaattatttc atttaaccct 60
taaattaaac ctacaggtag atattccagt agaatagtta caacaataga gagtaaat 120
gcataatgtga aaaatggaca tatgctctgg tttttttttt tttttttttt caatagagat 180
gggatttttc tatgttgccc aggatgggtct cccaacttct ggctctcgag 229

```

<210> 1562

<211> 209

<212> DNA

<213> Homo sapiens

<400> 1562

```

gaattcggcc aaagaggcct agtcgtgggt caattgaggt ttctgttggg ccaatgggtat 60
ctgttattct ggctttttat tggttttttc tagcagctgc ttcactagca gtcateggtt 120
caggaagagc tgaaggaata gaagaattat tgatgttggg gactggacaa tcttttttgg 180
caaatttaaa tgcaaaatat gcactcgag                                     209

```

<210> 1563

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1563

```

gaattcggcc aaagaggcct accttgaagc atacataata ggtgttgggt tatttttttc 60
tcattggaatc atgggtagtt tcattgcagc tcattctctt ctgtttgttt cgtatagggc 120
tgatagttca ggaccattca gaccccatgt tcagttcata tgccataaag tccactacc 180
tactgaatga atcaaatcgt gctgagttga tgaaattacc tatgattcct tcttcgtcag 240
cttcacaaaa gaaatgtgag aaaggtaata atctcgag                                     278

```

<210> 1564

<211> 234

<212> DNA

<213> Homo sapiens

<400> 1564

```

gaattcggcc aaagaggcct acctgatgc gtgatgatgg caccaccctc tcagatgata 60
ttcacgagct ttatgtgtac aagtgtgatg agaatagcac gtttaataac catgctctgt 120
acctgggcct gccctgctgc aaagaggact acaatggctg ccttaatat tcttctagcc 180
tcattctcca gcgcagcacc aaagagtctt tcttcatctc cactacagct cgag 234

```

<210> 1565

<211> 294
<212> DNA
<213> Homo sapiens

<400> 1565
gaattcggcc aaagaggcct agtttctgta agatacagcc ttagtgaata aaacctggaa 60
tttcttaggt gagcggaaaa ataagaggct ttaaactctt catccacaaa tacaagcatg 120
aaaacttgga cactttttta aaaaattttc ttttttatgg cggttgaggt ggaggtttca 180
ctgtgttgcc taggctgccc tcaaattcct gggctcaaaag gatccgccta cctcaggctc 240
cctagtagct gggactacag gcacatgcca ccgcacctgg ctctcccact cgag 294

<210> 1566
<211> 203
<212> DNA
<213> Homo sapiens

<400> 1566
gaattcggcc aaagaggcct atttaaacag caaactgtgt gcactcaact gttatcacia 60
tggtgtcaag aggtctgtgt cttttaccat ttacacaca attgttcatt acagtatgtt 120
gtcagcctcg tggaaaccag ggggtgtgtc tggtgaagcag tggtggtagt gcacctagct 180
tttatattat cactgcctc gag 203

<210> 1567
<211> 241
<212> DNA
<213> Homo sapiens

<400> 1567
gaattcggcg ccgcgtcgac atgcagcccc ggaaagagct agagacaggg aagaacgatt 60
ggcagcactc acagctgctc aacaagaagc tatggaagag ttacagaaaa aaattcagct 120
caagcatgat gaaagtattc gaagggacat ggaacagatt gaacaaagaa aagaaaaagc 180
tgctgagcta agcagtgggc gacatgcaaa tactgattat gccccaaaac tgaccctcga 240
g 241

<210> 1568
<211> 366
<212> DNA
<213> Homo sapiens

<400> 1568
gaattcggcc aaagaggcct ccgagatttt ggtgaaaatt aaattagata aacgatgagc 60
agaatgtctg aacacatggt tggcaatcag aaagtatttt ctccaacctc ccttcccaa 120
cacacctctc aaaacctttc ttttccatc taccactcag ttccatctct cctggactac 180
tgctctccga cagggttttc agccttttgt ctactactcc ttcaaaccat cccaaacctg 240
ctattacaaa caacattcaa aaatcagaaa ttgatcatg gcactccctg tcacaaatcc 300
tcctatgggtg ataacattca gaacaaatct gcattcagag aaagtccacg tgtccctgc 360
ctcgag 366

<210> 1569
<211> 236
<212> DNA
<213> Homo sapiens

<400> 1569
gaattcggcc aaagaggcct acgtcgattg aattctagac ctgcctccag cccataggct 60
aattgatatt cttaacgagg gaaggcaagc acctcatgaa aggttttgtt tgtgtttct 120
ttttctttt tatctctgtt tctagagaca gcaaccttat cagtcacgca gatcttaata 180
gactagaaaag aagccaggag agtattaaag aactcttaac acaagagaat ctcgag 236

<210> 1570

<211> 184
<212> DNA
<213> Homo sapiens

<400> 1570
gaattcggcc aaagaggcct agcaagattg tttctcggga acagctgtat atgaaatggt 60
gattctcagg gagacaccta gacacctgaa ttgcagcaga ctttttatgg tgttgctaag 120
ttgctggtec ttctcatcag tagcaggcct actctcactg tcacatatct cccacggctc 180
cgag 184

<210> 1571
<211> 184
<212> DNA
<213> Homo sapiens

<400> 1571
gaattcggcc aaagaggcct aagatagttc acaatttatt ccgtgtatcc aagcctgcgt 60
aaacgggaat ttgctaaagc aaattgggaa ttggggatta actaaagga attgtgagaa 120
agagaaagaa caacttttaa gaagtatggt aactgtcata ttttcactta aggggctcct 180
cgag 184

<210> 1572
<211> 238
<212> DNA
<213> Homo sapiens

<400> 1572
gaattcggcc aaagaggcct acgagatgaa tttctatgca ttattggaaa ataaggacaa 60
agtcttccta tttatcatgt tgtggattat tgatggaaga tgctgtggat tggctcagtc 120
aacatccaact tcacctcaa acaggatatgc cttcctgcaa agcaaaagga atcccaaaac 180
ctcttcgagc tatagttgcc aaaagcaatt tcagttctgc caaccagagg gactcgag 238

<210> 1573
<211> 219
<212> DNA
<213> Homo sapiens

<400> 1573
gaattcggcc aaagaggcct agattgaaaag tgatacaatt tgaatatttg tatattgtca 60
ttggctcagta atggaaaaat gagattccac cagtgggtta ctcttttctt gtcttggttt 120
gctatgcctt atcccagatc agtggtttgt tccatcccta tggctcatct taaagccctg 180
acaggagcat cccagactgg agaatgcag caactcgag 219

<210> 1574
<211> 236
<212> DNA
<213> Homo sapiens

<400> 1574
gaattcggcc aaagaggcct aatttgcatt ccttagagt cttctatttc tgtttttacc 60
aaagcagtc tcatcattga aagcagcaga gctgttttgc tcttaattaa ctaatttaat 120
aaaaaccagg gattttattc aatcttgaaa taattgcctt ctgtcgaaca gtttaaaatc 180
atacagtttag caaaaattta agaataatct aaatgaaaa tagaggggca ctcgag 236

<210> 1575
<211> 199
<212> DNA
<213> Homo sapiens

<400> 1575

```

gaattcggcc aaagaggcct agtgatctat ccccatctga gcccgacaag ttttgagta 60
atttattaga cagagataac taatacaaat ttttcagtgg acaatatatt cctgtttttg 120
gatattgctg tcattggaag actgtgccag aaggtaaatg aagggtgggtg taatgtttca 180
tattagaaaa atcctcgag                                     199

```

```

<210> 1576
<211> 243
<212> DNA
<213> Homo sapiens

```

```

<400> 1576
gaattcggcc aaagaggcct aagagaaaaa gaacagagct cttttatata attgaatgca 60
ttgcaggtta gctgaagtga aatcaagtca agaataattgt ctgaggaaat atcaagttac 120
tgtaaaaggta aatccatcaa gaatatctaa agtcaggagg gaaaaaaaaa gaatttagtg 180
tttatctatg tatgttactt catgattagt agatccaata tgagaattaa tgtggtgctc 240
gag                                     243

```

```

<210> 1577
<211> 252
<212> DNA
<213> Homo sapiens

```

```

<400> 1577
gaattcggcc aaagaggcct atgagaaatt aaatgatccc tgcagagttc caaaagttgg 60
gtcaattata tgtgtgcggt attatttatt ctattatttg ctacaaatca agctcagttg 120
atcattttcca tgtcattaga agataagtgt atctttctga gggctaaggg tcatgctgag 180
ctagaagggtt gcaaggctgg agagggaagt ccttctctcc agcgtcagca aaggctgcgg 240
gcagggtctg ag                                     252

```

```

<210> 1578
<211> 230
<212> DNA
<213> Homo sapiens

```

```

<400> 1578
gaattcggcc aaagaggcct agagagattg cttttctctg aatcatttca ttctagactt 60
tcattcatttc ctgctaagtt gtaatgttac ctgtcttctc cttagtctct agcttatctg 120
aatttttattc tgttattgct gcacaaatta ttatcaagtt ccactttggg ctgggcgcag 180
tggtctcagg ctatagtcct agcacttttg gaggcgcagg cagactcgag 230

```

```

<210> 1579
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 1579
gaattcggcc aaagaggcct accttttttc ccccatcatt ttgcatctct tgccaaactt 60
taacctttgca gttctccatc cctcatcaaa tgccatcctc tgggatctgc ccattgcctt 120
gtttgcctga ctcaccatca tgccttagcat cttttgggca ctcagtcctg tttttggcct 180
ctttactttg acatcatttt aactgtcact cttcgaacac cttgaatctc gag 233

```

```

<210> 1580
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<400> 1580
gaattcggcc aaagaggcct aattttaaagt gctgcttttg attctctgga gcattatgca 60
ttatagttgt tatccaaaaga cttttttgaa aatatgcaga aatttgtggt aattatgtat 120
ttgtgtcttg tgacaattat gttttataga cctacactag tgccaggtca ctattgtaag 180
atgttaaaat ctcaagaaaa ttccacagat gcaactcgag 219

```

<210> 1581
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 1581
 gaattcggcc aaagaggcct acgtcgattg aattctagac ctgataacaa aggccttgct 60
 tattcctgat atcctatcat catctttacc aatttctggc aattatatcc ctgggcctaa 120
 gttcccatctt ttgtatcctg cctcatacc ccaagtctctc atgaagtggg gtccctgctt 180
 gctctacaca ggactcgag 199

<210> 1582
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 1582
 gaattcggcc aaagaggcct aattgaattc tagaccccc gccagcttcc cacacctcat 60
 acgcagccac atctgcccta ttctccatgc ttccagctt gcctgccctt cctcatctct 120
 ccttgctgt gcagacctcc acccttctct cctccacccc tccatcccc aatgcttgta 180
 gaccttccat tcattccgtc tcacgtgctg tgggtctctga tcgtccatca cctgaccttc 240
 tccaggactg tcttctcacc ctccccctg ag 272

<210> 1583
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 1583
 gaattcggcc aaagaggcct aggagtggag gtccaggacc aaggggcttc tggctcctcca 60
 gccctgtac tcggccatgc cctgcggtca ctgcggttgc cgccctaat tgtgccaaag 120
 gctgacccgg cctgggctgc gtacacctt gccctgctt gccctaaagc ctccgggtct 180
 gcccgcccc tcgccccgc ctggcactgc tcaccgcccc aggcgacgcc ggctggacca 240
 ggactgctg gcccttctcc tgcccgccct cggaaccagc tttctctct taagatgaag 300
 gctgatgcc agagcgggct gtggcgagg gtgggtcagt cccgtattta ttttgctttg 360
 agagagaggc accctaaacc gtcgattgaa ttctagacct gccctgag 408

<210> 1584
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 1584
 gaattcggcc aaagaggcct atgtgaatat tgtaaaagt ctgtatgtt agtagtgtt 60
 tgtgcctggc agtgctgact atgactactg tgccatctgt ctgtgacct gatgtcagg 120
 acctggccat ggggctacca gcaaggatgt gcaaagggaag aaccgctgc cctgccctca 180
 gcttcttctat gcccgagcca ctacttatcc gtgaatgtga gtgccaagag aaacctaat 240
 tggtaggggaa gccaggcat ctcgag 266

<210> 1585
 <211> 298
 <212> DNA
 <213> Homo sapiens

<400> 1585
 gaattcggcc aaagaggcct agctgtgttg ccattagaac atttaaatga gtttcattct 60
 gagttttgta ttgttaaact gtgtctggaa actaaacttt ataatgtgtt acattttagg 120
 tcagaagaca tgtcttctac tacatggcat ctttctctac ctctatgtgc cctacgatgg 180
 ttatggacag cagccagaaa gctatctctt tcagatggca ttcagtatcg acagagcact 240
 taatgtggct ttaggcaat catcttctac tgcctagcat gtgttgatga aactcgag 298

<210> 1586
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 1586
 gaattcggcc aaagaggcct agaataccat cgtaaacaag atataaatcc ttacatatc 60
 atgttcccca taccctttcc ttccattctg cttacgtaca atacttacct tgaaagttag 120
 cagtgaacac tcccagtcac catgcatagt ggaaagcttc aagaaataag aataataata 180
 aaaaagttaa aactataatg ataacttggc cgggcacact ggctcactcc tgtagtcccg 240
 gcgctttggg gggccgaggc gggcggatca ctcgag 276

<210> 1587
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 1587
 gaattcggcc aaagaggcct atggtagttg aagagagaac gtttaatctt caattcctct 60
 tgcaggtagg cctcgaactg ggcatacaata tattctacta tcggcttata gctgtcatct 120
 ttatttatct ggtctccaaa tcccacggtg tcaacaatgg ttaacttcag ccgtacattg 180
 ctcgag 186

<210> 1588
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 1588
 gaattcggcc aaagaggccta gatcctcaca cctaagccat gtttttaggtc cagctacctc 60
 ctccatatca cagcagaagc tgcagtttca acaggtgtag tagcttgccc acaccttggc 120
 gactaagtgg gggcagcagg ttttgaatct ggggtggactg cagctggaac ccacataact 180
 aatccatacc ctagaatcta ggtaggaaaag agaacatgct ttatctgggg ccagggaaat 240
 gactgtggga ggcagtgcaa ggaattgagg ccagttaggt gggcaggagg ccaatgatca 300
 cggccctctg ttgcctttgc aatgcagttg ggtacatgtg acagtcattg aagaatgtca 360
 aaggtcaggg atgagattgt atgacatgat cagacctgtg ttttagccag atcactccgg 420
 gctcgag 427

<210> 1589
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 1589
 gaattcggcc aaagaggcct agacaacttc agcagtcggt acaagtcaca ttccattttg 60
 attgaataca tgatcttgaa cagctcctgt acttgctctt tgtaaaaaaa aataaaatta 120
 ttttgaatta ttctaccttt gtaaacattt ggctaaaaga atcatcttta agaaattaag 180
 ccatttacat gtttgtgttt ttctatagca gagcattata ttttgcatca tatgtttcaa 240
 cctagtctaa gtgggtcttt ttacattttt tcaagaacgg atttcctgga atacagcgat 300
 ataatttttg ttgtcaaatt cctaattgcaa ccatttagtc taaacttagt catttatattg 360
 tgacaataag atgtgttcag gggctccttg tttttaagag actcctcgag 410

<210> 1590
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 1590
 gaattcggcc aaagaggcct aggacatgag tgactgaagg aacgaatatt tggagtgggc 60
 aactaacatc aaaagagact ttacatttaa agtgagagat acttttggga gtagaattga 120

```

agttctttgc tctcttttgc ttgaaaaggg cagattttctt taggcagtag ttaggaatag 180
catcttgata tgagcaagat gaaacgtggc tgtcaaggga atcctctaaa atgcttttat 240
ctcactatga agctattttt aaaagttaca tgtttattac taattataat ttgggttacg 300
aaacaggaac aactcgag                                     318

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<210> 1591

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1591

```

gaattcggcc aaagaggcct actctctttt aaataaaactc cattcttccc attccatgat 60
gtcctctaac tctgctctcg ctttttctgc tctgttttat tctccctca ctcctgtct 120
cctggcattg ttcaactcgc tgtgctccat tgccagaacc gtggaggaaa cccctcccg 180
ctgcagccca cccctctcct tctctgag                                     208

```

<210> 1592

<211> 303

<212> DNA

<213> Homo sapiens

<400> 1592

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gaattcggcc aaagaggcct agacagtcca actagaagag actggtaaga gattgcagtt 60
tgcagaaagc agaggctccac agcttgaagg tgctgacagt aagagctgga aatccattgt 120
ggttacaagg taggaacaga gttttaaaact tgtacaaagt ttaatcattt caaattttgg 180
cattgtttta aaagacaaca ctattctgga taacctgggt tcttctgat gaacagtttg 240
tttggttggt gttttaacat aatacttttt tctgttgta gtattgttg agactctctc 300
gag                                     303

```

<210> 1593

<211> 189

<212> DNA

<213> Homo sapiens

<400> 1593

```

gaattcggcc aaagaggcct actttaatgc ctttggcctt ccattctgat ttctctgatg 60
agaatattgc tggccctgct ttccctggta ggtatttgcc aggcccaatg ctttaacctt 120
aagctgatac tttgctttag atgtcagctt cgttaccagc agccttttga cccaacaacg 180
gcactcgag                                     189

```

<210> 1594

<211> 291

<212> DNA

<213> Homo sapiens

<400> 1594

```

gaattcggcc aaagaggcct agtaaaaatg aaaatgaaag atacatactt tatgccattc 60
atattgtatga atataggaaa gcacttgaac ttttggcctg tctgtgggtc ttcagaattg 120
ggcagtgga catcctgttg gaagcactgt catgtgggta cctcagagcc tgccctctct 180
tttcagcctt acctcactgc acagctccag ccaaagggcc acgtgcacca aagggtcaca 240
cctgaccagc ttttaatcat tccatacact gaaatgcctt cactcctcga g 291

```

<210> 1595

<211> 416

<212> DNA

<213> Homo sapiens

<400> 1595

```

gaattcggcc aaagaggcct atcccggagc aagcgggcaa agctgctcaa aaaggaaatt 60
ccccttctcc gaaacaagct gagccagcag cacagccagc cctgcccac ggggccaggc 120

```

```

ttggaaggct tcgaagagga cggagctgcg ctggggccgg aggcggggcga ggaagtcctt 180
ccgagggttg agactcttct gcagccaagg aaaagggtcg ggagcacatg cggagactcc 240
gagggtggagg aggagtcccc aggaagagcg ctggacgcag gtctcaccac cggctttggg 300
ggtgcgagga gcgagcagga gccgggcccgc ggctctggga ggaaggccac accccgacga 360
cgctgtgcct ccgagtcag catctctctc agcaacagcc cgctctgcga ctcgag 416

```

<210> 1596
 <211> 297
 <212> DNA
 <213> Homo sapiens

```

<400> 1596
gaattcggcc aaagaggcct aaaagacat ggagaaatca ggtttttttg gtgaaaataa 60
acatcaatac ccattttgac gtgaatatct aaagtgttat gaaaccaact acatataatt 120
ttaaaatgct ggggctcata cgtgaagggt gagcactgtg ggcaaatttg gaaagattct 180
ctacatttaa agattattta agggactggt atttatatga caggataggc taaataatca 240
gtcacaacag attctggagt gaactgggga gaagtatggg atagtgcaga gctcgag 297

```

<210> 1597
 <211> 217
 <212> DNA
 <213> Homo sapiens

```

<400> 1597
gaattcggcc aaagaggcct agttgaactg tgtgttatct gattttctaaa ctcgtagctg 60
ttccacaca tcttgacctc cggttgtgaa tataaacaga gacatttaga tgagcatgtc 120
taatggcat attaaactta gaatttggag actcttgagt ttctttcttt tttctttttt 180
tttggagaca gagtctcgct ctgtccccaa gctcgag 217

```

<210> 1598
 <211> 403
 <212> DNA
 <213> Homo sapiens

```

<400> 1598
gaattcgcgg ccgcgtcgac cataccagaa ttttaggatt ttattttacc ttctaataa 60
taattagttc taaatgtgtg ttaacccttt ttcccccaa tttaagggtt tgtgttttca 120
tatcttatct ttttggattg ctcttataat aatgaactct tcctgtatag gtatgaaac 180
accagaagaa caactggtgt gtgtgccacc acaggaggcc ttctctaacy acccccgggt 240
aataaataga cagagaagtt ctgattacca gtttccatcc tctccattta cagacacact 300
aaagggcacc actgaggatg acgtgttgac aggtcagggt gaggagcagt gtgtgccacc 360
agcagaggca gagccgctg cagtgcgct aaccacgctc gag 403

```

<210> 1599
 <211> 117
 <212> DNA
 <213> Homo sapiens

```

<400> 1599
gaattcgcgg ccgcgtcgac ggtgtagatg atgtttgggg tcaatttctt ctctgcctc 60
ttcacagtgg gtcactgct agaacagggg gccctactgg agggaacca actcgag 117

```

<210> 1600
 <211> 103
 <212> DNA
 <213> Homo sapiens

```

<400> 1600
gaattcgcgg ccgcgtcgac cgagcatcct aggatatcca aaaggctaga gtttggagag 60
gaaagttaat ctatttatga agtttaggaa aggcatactc gag 103

```

<210> 1601
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 1601
 gaattcgcgg ccgcgtcgac atcacgaggg cttcccttca gagagctgac aatattaaca 60
 gcacagagaa tactaggtct gttgattaaa actcaaggct tcatactgta agggccccc 120
 aggaagcatt aaattgggcc ataggaagga caagtcacat ccagtttagt gatcaatgg 180
 gggttgggaa agaaataaca gaattctact cctacatgat agggagagac tacagaggcc 240
 acctagacca acaaactctg ccacaggtc cttgaatcat tgctaccatg tccctgggtgg 300
 gggtgtagca ttgctagtga tatgtaactc attacctact tatgcaaacc tcgag 355

<210> 1602
 <211> 613
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (592)..(601)

<400> 1602
 gaattcgcgg ccgcgtcgac aaggagataa atatcttgcc ttagtcatta caaagcaata 60
 tcttgatatg taaatgctaa tctggggcct gggcagtttc aactagaaat atacgtaaga 120
 ttccagaaag aactcatacc agtttgggtc tatgtctttt ctttaagttct tactgtgatg 180
 atatgggttca ttaaaattat tttttttctg atacattcta attaacatga aatcctttat 240
 gtactgcact agctttaaaa aataataata attttaagag actccaatga acattaatgc 300
 atttttttat ttatgcacag caattatatt ccagaagtga gaatcatgtc aattcccaac 360
 cttcgtctaca tgaagggttag taccttgctc attaacagga agaaaaaggg attgatcaat 420
 gatgtgtgta catgtgtatg tgggtggcag tgtgtgtatt tggcacagga tccagtgcag 480
 aagggataga aaagaagaca gtttgggata ataaagacta aatttggtga cactgagatt 540
 cttgacaaca gcattctgatg aaaagtaggg agaaggagca gggtcacat tnnnnnnnnn 600
 ntgagtactc gag 613

<210> 1603
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 1603
 gaattcgcgg ccgcgtcgac gggcgaggct ggactggaag gtaaaaggct tgccagagtc 60
 ttggggagaag agaggtccca gtggggactg gtacgtgtca gcctgtccac actgcttcc 120
 caggtgggta cagtaattgt gagcgacctg cgtcacaggg tagatactga actggcagag 180
 agcaccttca aactggactg catgcgggtc catcttccca aagagggaag agccccag 240
 gtcgagtga ggtccctg tggaaaaggca gcaggacagg caccgggcgc tgcccgcagg 300
 cagtcaccag agtgactgtg cggcatcgga gctcgag 337

<210> 1604
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 1604
 gaattcgcgg ccgcgtcgac cttggaactc cgttatccgc gatgcgttcc ctggcagcta 60
 catctctgtc cctggcgctc agcacctctg cccaggccga accgggtgcag ttcaaaggact 120
 gcggttctgt ggatggagt ataaaggaag tgaatgtgag cccatgcccc acccaacct 180
 gccagctgag caaaggacag tcttacagcg tcaatgtcac cttcacagc aatattcagt 240
 ctaaaagcag caaggccgtg gtgcatggca tccatgatgg cgtcccagtt ccttttccca 300
 tccctgagcc tgatgggtgt aagagtggaa ttaactgccc tatccaaaaa gacaagacct 360

atagctacct gaataaacta ccagtgaaaa gcgaatatcc ctctataaaa ctggtggtgg 420
 agtggaact tcaggatgac aaaaaccata gtctcgag 458

<210> 1605
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 1605
 gaattcgcgg ccgcgtcgac cttaaaagtt atagatttgc aaatttcaa gaaagccgtc 60
 ttatttaatt gatatttga aatttataac tcacctttca gtggaatagt ttttgtaaat 120
 tcatgagaaa gaaacaaaat atcaatttat agtagttgat ggtgttataa atccagaaga 180
 agctctataa cattataaaa atcaagattg gttgctcaca ttttagagta ccaaaggcag 240
 caaaatgatg taatttataa ataataaato ttaaactgtt gataaaccac actctgaagt 300
 atttttaaag aggtttattc taagccaatg agtgaccata gccaaggag cagtctcaag 360
 aggtcctgag aaagtgtgca ctgggtgttg gagttacatt ttagggagta ctcgag 416

<210> 1606
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 1606
 gaattcgcgg ccgcgtcgac cctaaaccgt tgattgaatt ctgacctgc ctcgagtcca 60
 ggatattgac ttctgaatto ttaagtttct ttcttcccag ctctatgagg ccactaatag 120
 ctctatcaat gttattggcc ctcatccag gcaacactca gcttctcagc tttttgcctt 180
 ccagaatca gcaatacat tcagctaaga aaaaaaaaaat agctgcagca catcagctcg 240
 ag 242

<210> 1607
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 1607
 gaattcgcgg ccgcgtcgac aatcaggaat ttgaagaaaa tggaaatggt tacatttttg 60
 ttgacgtgta tttttctacc cctcctaaga gggcacagtc tcttcacctg tgaaccaatt 120
 actgttccca gatgtgtgaa aatggcctac aacatgacgt ttttccctaa tctgatgggt 180
 cattatgacc agagtattgc ccggttgaa atggagcatt ttcttctctc cgcaaatctg 240
 gaatgttcac caaacattga aactttctct tgcaaagcat ttgtaccaac actcgag 297

<210> 1608
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 1608
 gaattcgcgg ccgcgtcgac cattgacttc ttctaccggc cgcataccat caccctgctc 60
 agcttcaacca tcgtcagcct catgtacttc gcctttacca gggatgactc tgttcagaaa 120
 gacaacatct ggagaggcat cctctctgtt attttctct ttcttatcat cagtgtgtta 180
 gctttcccca atgggtccgt cactcgacct catccagcct tatggcgaat ggtttttgga 240
 ctgagtgtgc tctacttctt gttctgtgta ttctactct tctgaattt cgagcaggtt 300
 aaatctctaa tgtattggct agatccaaat cttcgatacg ccacaaggga agcagaagtc 360
 ctcgag 366

<210> 1609
 <211> 120
 <212> DNA
 <213> Homo sapiens

<400> 1609

gaattcgcgg ccgcgtcgac gtgcattata gtgatttcag tagattcaca ctcaaatctt 60
 ttcagtgta tacatttatt aagccataaa gttatgaaac cctcagctct tgtactcgag 120

<210> 1610

<211> 209

<212> DNA

<213> Homo sapiens

<400> 1610

gaattcgcgg ccgcgtcgac tgacaccttt ccccaaatat agattacaat aaagaaggct 60
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 actatgccc gctaatttgt tttgtattt ttagtagaga cagggtttca ccatgttggc 180
 caggctggcc tcgaactcct gacctcgag 209

<210> 1611

<211> 230

<212> DNA

<213> Homo sapiens

<400> 1611

gaattcgcgg ccgcgtcgac attctagacc tgccctgagt ctaccagga ctgcttgttc 60
 tttcttaaaa ccttaagcta actgtaggtc atcattcaca tgccaaaaat ccagccatgg 120
 cttctctttc aaaattaaca gtgaatatct tatccctagg ccatttecta ctctccagcc 180
 ttaaccttct tcccttctgc cactgctatc aagaaccgg ccactcgag 230

<210> 1612

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (380)

<400> 1612

gaattcgcgg ccgcgtcgac tgggccttta gaagacttgg cttcttcaact ggagagcttt 60
 tattcaggag gctgctagca ccagtcctcc ctgcggcctt gccaaagagg gagtgctgaa 120
 aggggtgcatc ctctgtgctc gggctgactt caccgtcacc tggtttcttc tccttcaggg 180
 aaaaggggtt cttattgggg cttattttct tcctgtgccaa aaagatagcc atgtctttat 240
 gcaaaccttt ccccttcttt ctagccaggg ctgcagatgc atgatcaaag aaatgtacca 300
 ctgcaagctt tttgctgctc ctggtaaaga tgcgctgcac tttagcaatt ttgcccataat 360
 ggttctccag aatggaacgn tctcgag 387

<210> 1613

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1613

gaattcgcgg ccgcgtcgac gtaggaattc caggttcagg ttccagcaca gccaatat 60
 tcacaggatt gttgtgtgaa ctgaatgaaa cacacacata tgaaaacaag gtatcttgat 120
 aaatcagtaa cttttataac accgttgctc caaaaaaag ccttacttta ttactttatg 180
 tgcattgtct cattaatate ttctagtgtc tgtgattgtc aggtcagcac tgtcagccac 240
 ttcaagaag aagagaatag gggagatctc gag 273

<210> 1614

<211> 345

<212> DNA

<213> Homo sapiens

<400> 1614
 gaattcgcgg ccgcgctcgac gttcttagta ttttaagaggc cttcataatc acagaagaga 60
 gtgatattat aggattagaa cattgtattt ttggtttttg gtgctgaagt tctaatctta 120
 cctctgaagt gatcctgata ttttgccaaa gttgtgactt taatattctg tggcttgtaa 180
 ttgtgatttt tctaatacca gagtagaatt ctggggagga atttttctaa acccaaatac 240
 ctcaatttga agtgaggctt ggctttaaat aataacacat ttgagtttga gcttttctctg 300
 caattaagtg gtatgctgca aaaaggaatt cggtttagcgc tcgag 345

<210> 1615
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 1615
 gaattcgcgg ccgcgctcgac cgattgaatg gggtttttgt gggttctttt tgttgatatt 60
 attgttgttt tctgtttgtt tgtttgtttt tttgtttgtt tgttttttat ggtcaggcca 120
 cttgtctata gtctctgtgt ggtttgctgt ggtctgtctc agaccctagt tgcctcagtt 180
 tttcccatat ctgaagggtat caccagtgaag agctgcaaaa catcaaagat ggcagcctgc 240
 ttcttctctt gcttcttctt cgcgcgagct catgcctgta atctcgag 288

<210> 1616
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 1616
 gaattcgcgg ccgcgctcgac gtgttcccga cacaaagaaa tgataaatgc ttcagggtgat 60
 agatatgcta attatcctcc ttttatcatt acactttata caaatgtatc aaagtttcac 120
 actggctggg cccggtgact cacacctgca gtccgaactc gag 163

<210> 1617
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 1617
 gaattcgcgg ccgcgctcgac atttttaaac agctgtccat actttcttga acctaaagcat 60
 acaattgaac tgtttccact gcacccgtcc taacatttct ttttgtctca tttctctttg 120
 tggctaattt ttaagataat ataaacttgc attaataaat ttaatgagaa agtggttagg 180
 ctatgtgtgg cagctcacat ctgtaacccc aacactttgg gaggtgagg caggagaatc 240
 tcttgagccc aggatttcga gatcagcctg ggcactactg caagacctcg ag 292

<210> 1618
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1618
 gaattcgcgg ccgcgctcgac cacacagtgt taccggatga ggagtctggt cttgctttgc 60
 tttctctgcc ttttctgtct tgcatttggc tctcccgccc tcttacagcg accccgcttg 120
 ttgcttctct tattctccag ttcccttcca atcccccttc acttctcttt actccccctc 180
 cccaggtcag tgctcggcgt ttccctccctc tttctgttct cccatccctc cgggcagctg 240
 tctctgtcgt gttctgtctc ctgctctccc gccctcctac acgcacccgc ctgttgcctc 300
 tctcattctc cagtccctct ccaatccccc ttcacttctc ttactcccc tccccaggt 360
 cgctcgag 368

<210> 1619
 <211> 108
 <212> DNA
 <213> Homo sapiens

<400> 1619

gaattcgcg cgcgctcgac ggtgggtcaa tcatcagttt aggtgccat aactaatatc 60
 atagacgggtg gcttaagcaa cagaatgtat tttctcacac tactcgag 108

<210> 1620

<211> 287

<212> DNA

<213> Homo sapiens

<400> 1620

gaattcgcg cgcgctcgac caagaagttc aggaacaagt ctcccaaaaa aactgaaatt 60
 gtactgctct aatgttaaag tcaccttttg catttctctg gctaggagtg aggggaactg 120
 ggaagaatga attcctgaca cacctttctt tgggtttttt tttggctttt gcagtgcctg 180
 catctaccta cagcccgctc ccagggggcca attacagtc cactccctac accccctcac 240
 ctgtcccccac ctacactcca tcccagcac cagcctatac cctcgag 287

<210> 1621

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1621

gaattcgcg cgcgctcgac gggccccct tccccagtc ttaacaacaa aaaacaaaaa 60
 accagcctgg agatctacat tgtgatgctt ttaataaact tgactccttt cttggccagc 120
 tgtctcgag 129

<210> 1622

<211> 336

<212> DNA

<213> Homo sapiens

<400> 1622

gaattcgcg cgcgctcgac taaaatcaga acgtcagctc cgggtttgtt aatgggcagg 60
 tgttttccaa aatttgttgg taaagctttt gtttgatata tcaaatattt tcccccttga 120
 aacaaatata tctacttagt aaatatctgt ggaattatct ttaagctat gagtagcaaa 180
 aaaggtggcc tttgtgtcac ccacttacc ctcctcttta gctcctgggg cagacatctg 240
 gaattcttcc tagcactctt cctgctgata ccagatacaa ctgcagtagt tcataacatg 300
 accctgcagg tgcccacaac caaggcatta ctcgag 336

<210> 1623

<211> 301

<212> DNA

<213> Homo sapiens

<400> 1623

gaattcgcg cgcgctcgac ggattaccag cacctcaggc cacaaagcat ccatcagcgg 60
 ggcgtctcaa ctgtggacca cctctgctgg cgtgtgggca gtgactccca cattcagcgg 120
 gcgccacacc caccatata gcatgtttgg ggtgaggcac ttgttctgga ctcttcaca 180
 ctacagggtg gctataacca gcctctgggc ctgtccagca cccagtcaga tacccttttt 240
 cttgattgta ccattcgagg acttcagggt gaagcatcag atacctgtgc ccacactcga 300
 g 301

<210> 1624

<211> 202

<212> DNA

<213> Homo sapiens

<400> 1624

gaattcgcg cgcgctcgac tggagatgag tcttgggttc caattcatgc tgtttatcct 60
 gcagctggac attgccttca agctaaacaa ccaaatcaga gaaaatgcag aagttcccat 120

ggacgtttcc ctggcttacc gtgatgacgc atttgetgag tggactgaaa tggcccatga 180
aagagtacca cagaaactcg ag 202

<210> 1625

<211> 219

<212> DNA

<213> Homo sapiens

<400> 1625

gaattcgcgg ccgcgtcgac ccacatttcg tttgtgtctg tttccaccat tcatagaaac 60
cttggaaacca ctctcacagc aatgctagga tgtttcatgg acctgttaag cattttgatg 120
atacaagaca tcttatcaat gccagtctta ttttcgctag gactctgctt ccacagtaag 180
ctcctaaggt gctcacccaa ccaggagaa aagctcgag 219

<210> 1626

<211> 389

<212> DNA

<213> Homo sapiens

<400> 1626

gaattcgcgg ccgcgtcgac gttgcagacc tcataatgac gctgacattt ccatttcgaa 60
tagtccatga tgcaggattt ggaccttggg acttcaagtt tattctctgc agatacactt 120
cagttttgtt ttatgcaaac atgtatactt ccategtgtt ccttgggctg ataagcattg 180
ctcgctatct gaaggtgggc aagccatttg gggactctcg gatgtacagc ataaccttca 240
cgaagggttt atctgtttgt gtttgggtga ccatggctgt tttgtctttg ccaaacatca 300
tcttgacaaa tggtcagcca acagaggaca atatccatga ctgctcaaaa cttaaaagtc 360
ctttgggggt caaatggcat actctcgag 389

<210> 1627

<211> 265

<212> DNA

<213> Homo sapiens

<400> 1627

gaattcgcgg ccgcgtcgac cacatagaga cttaatttta gatttagaca aaatggaaat 60
tatttcatca aaactattca ttttattgac tttagccact tcaagcttgt taacatcaaa 120
cattttttgt gcagatgaat tagtgatgtc caatcttcac agcaaagaaa attatgacaa 180
atattctgag cctagaggat acccaaaagg ggaaagaagc ctcaattttg aggaatttaa 240
agattgggga cgctccgaac tcgag 265

<210> 1628

<211> 232

<212> DNA

<213> Homo sapiens

<400> 1628

gaattcgcgg ccgcgtcgac gcatctcgta agagtaagaa tagttagata ttcttctgtg 60
ttatcttagt accattacca catctgagaa aattagcaat aattgttcag tttctctctc 120
aatctctatt caaaattgtc ccagtcctat tttgtgggac ttgaaaaaaa tcagataaag 180
cagataaatc aaatacatc catttatgca ttgtattgtt aggtgtctcg ag 232

<210> 1629

<211> 483

<212> DNA

<213> Homo sapiens

<400> 1629

gaattcgcgg ccgcgtcgac ggaggagaat gagtatgtta atgaagataa aaagaagtga 60
catctcttgt acaactgaact cacagaacat ttgtttacaa ttctgtgtga ctgtctgctt 120
ggagtttaca tatcaaatgt ctgggctgtt tggtaacgta acgtttccaa acattttgtc 180